

### **Olmesartan Medoxomil Tablets**

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**Expert Committee** Chemical Medicines Monographs 2

Reason for Revision Compliance

In accordance with the Rules and Procedures of the 2015–2020 Council of Experts, the Chemical Medicines Monographs 2 Expert Committee has revised the Olmesartan Medoxomil Tablets monograph. The purpose for the revision is to add *Dissolution Test 7* to accommodate FDA-approved drug products with different dissolution conditions and/or tolerances than the existing dissolution tests.

The Olmesartan Medoxomil Tablets Revision Bulletin supersedes the currently official monograph.

Should you have any questions, please contact Yanyin Yang, Associate Scientific Liaison (301-692-3623 or <a href="mailto:yanyin.yang@usp.org">yanyin.yang@usp.org</a>).

# Olmesartan Medoxomil Tablets

#### **DEFINITION**

Olmesartan Medoxomil Tablets contain NLT 90.0% and NMT 110.0% of the labeled amount of olmesartan medoxomil  $(C_{29}H_{30}N_6O_6).$ 

#### **IDENTIFICATION**

- A. The UV absorption spectra of the major peak of the Sample solution exhibit maxima and minima at the same wavelengths as those of the corresponding peak of the Standard solution, as obtained in the Assay.
- B. The retention time of the major peak of the Sample solution corresponds to that of the Standard solution, as obtained in the Assay.

#### **ASSAY**

#### **PROCEDURE**

Solution A: 3.1 g/L of formic acid

Solution B: Acetonitrile and Solution A (10:90) Solution C: Acetonitrile and Solution A (90:10)

Mobile phase: See Table 1.

Table 1

Time (min)	Solution B (%)	Solution C (%)
0	68.8	31.2
1.5	37.5	62.5
1.6	68.8	31.2
3.0	68.8	31.2

Diluent: Acetonitrile and water (60:40)

Standard solution: 40 µg/mL of USP Olmesartan

Medoxomil RS in Diluent

Sample stock solution: Prepare solutions of nominal concentrations of olmesartan medoxomil in Diluent as follows. To NLT 10 Tablets for 5- and 20-mg Tablet strengths and NLT 5 Tablets for 40-mg Tablet strength in a 200-mL volumetric flask, add *Diluent* to volume. Sonicate with occasional shaking to disintegrate the Tablets completely, centrifuge the suspension, and use the supernatant.

Sample solution: Nominally 40 µg/mL of olmesartan medoxomil in Diluent from Sample stock solution

Chromatographic system

(See Chromatography (621), System Suitability.)

Mode: LC

Detector: UV 249 nm. For Identification A, use a diode array detector in the range of 200-400 nm.

Column: 2.1-mm × 5-cm; 1.7-µm packing L1

Column temperature: 35° Flow rate: 0.6 mL/min Injection volume: 1 µL System suitability Sample: Standard solution

**Suitability requirements** Tailing factor: NMT 2.0

Relative standard deviation: NMT 1.0%

Samples: Standard solution and Sample solution Calculate the percentage of the labeled amount of olmesartan medoxomil (C<sub>29</sub>H<sub>30</sub>N<sub>6</sub>O<sub>6</sub>) in the portion of Tablets taken:

Result =  $(r_U/r_S) \times (C_S/C_U) \times 100$ 

= peak response of olmesartan medoxomil from the  $r_{\scriptscriptstyle U}$ Sample solution

= peak response of olmesartan medoxomil from the  $r_{\scriptscriptstyle S}$ Standard solution

= concentration of USP Olmesartan Medoxomil RS  $C_{S}$ in the Standard solution (µg/mL)

= nominal concentration of olmesartan medoxomil  $C_{U}$ in the Sample solution (µg/mL)

Acceptance criteria: 90.0%-110.0%

#### **PERFORMANCE TESTS**

### Change to read:

## Dissolution (711)

Test 1

Medium: pH 6.8 phosphate buffer (see Reagents, Indicators, and Solutions—Buffer Solutions) For Tablets labeled to contain 5 mg: 500 mL

For Tablets labeled to contain 20 and 40 mg: 1000 mL

Apparatus 2: 50 rpm

Time: 30 min

Diluent: Acetonitrile and water (60:40)

Standard stock solution: 2 mg/mL of USP Olmesartan

Medoxomil RS in Diluent

**Standard solution:** (L/V) mg/mL of USP Olmesartan Medoxomil RS in *Medium*, where *L* is the label claim in mg/Tablet and *V* is the volume of the *Medium* in mL from the Standard stock solution

Sample solution: Pass a portion of the solution under test through a glass fiber filter of 1.2-µm pore size.

Instrumental conditions

(See Ultraviolet-Visible Spectroscopy (857).)

Mode: UV

Analytical wavelength: 258 nm

Cells

For Tablets labeled to contain 5 and 20 mg: 1 cm For Tablets labeled to contain 40 mg: 0.5 cm

Blank: Medium

**Analysis** 

Samples: Standard solution and Sample solution Calculate the percentage of the labeled amount of olmesartan medoxomil ( $C_{29}H_{30}N_6O_6$ ) dissolved:

Result = 
$$(A_U/A_S) \times C_S \times V \times (1/L) \times 100$$

 $A_U$ = absorbance of the Sample solution

= absorbance of the Standard solution  $A_{s}$ 

 $C_{s}$ = concentration of the Standard solution (mg/mL)

= volume of Medium (see Medium)

= label claim (mg/Tablet)

Tolerances: NLT 75% (Q) of the labeled amount of olmesartan medoxomil (C<sub>29</sub>H<sub>30</sub>N<sub>6</sub>O<sub>6</sub>) is dissolved.

Test 2: If the product complies with this test, the labeling indicates that it meets USP Dissolution Test 2.

Medium: pH 7.2 phosphate buffer (see Reagents, Indicators, and Solutions—Buffer Solutions); 900 mL

Apparatus 2: 75 rpm Time: 30 min

Standard stock solution: 0.2 mg/mL of USP Olmesartan Medoxomil RS prepared as follows. Transfer an appropriate amount of USP Olmesartan Medoxomil RS into a suitable volumetric flask. Dissolve in 30% of the flask volume of acetonitrile. Dilute with Medium to volume and

**Standard solution:** (L/1000) mg/mL of USP Olmesartan Medoxomil RS in Medium, from the Standard stock solution, where L is the label claim in mg/Tablet

Sample solution: Pass a portion of the solution under test through a suitable filter of 0.45-µm pore size and discard the first few milliliters of the filtrate.

**Instrumental conditions** 

Mode: UV

Analytical wavelength: 257 nm

Cell: 1 cm Blank: Medium

**Analysis** 

Samples: Standard solution and Sample solution Calculate the percentage of the labeled amount of olmesartan medoxomil  $(C_{29}H_{30}N_6O_6)$  dissolved:

Result = 
$$(A_U/A_S) \times C_S \times V \times (1/L) \times 100$$

 $A_U$  = absorbance of the Sample solution  $A_S$  = absorbance of the Standard solution

 $C_s$  = concentration of the Standard solution (mg/mL)

V = volume of *Medium*, 900 mL L = label claim (mg/Tablet)

**Tolerances:** NLT 80% (Q) of the labeled amount of olmesartan medoxomil ( $C_{29}H_{30}N_6O_6$ ) is dissolved.

**Test 3:** If the product complies with this test, the labeling

indicates that it meets USP Dissolution Test 3. **Medium:** 0.05 M hydrochloric acid; 900 mL

Apparatus 2: 50 rpm Time: 45 min

**Buffer:** 1.36 g/L of monobasic potassium phosphate in water. Adjust with phosphoric acid to a pH of 2.5.

Solution A: Acetonitrile and *Buffer* (20:80) Solution B: Acetonitrile and *Buffer* (80:20)

Mobile phase: See Table 2.

Table 2

Time (min)	Solution A (%)	Solution B (%)
0	75	25
4.0	52	48
5.0	75	25
7.0	75	25

**Diluent A:** Acetonitrile, water, and phosphoric acid (50:50:2)

**Diluent B:** Medium and Diluent A (50:50)

Standard stock solution: 0.22 mg/mL of USP Olmesartan Medoxomil RS in *Diluent A*, prepared as follows. Transfer an appropriate amount of USP Olmesartan Medoxomil RS to a suitable volumetric flask. Add *Diluent A* to 60% of the total volume and sonicate to dissolve. Dilute with *Diluent A* to volume and mix well.

Standard solution

For Tablets labeled to contain 5 mg: 2.75 µg/mL of USP Olmesartan Medoxomil RS in *Diluent B* from the *Standard stock solution* 

For Tablets labeled to contain 20 mg: 11 µg/mL of USP Olmesartan Medoxomil RS in *Diluent B* from the *Standard stock solution* 

For Tablets labeled to contain 40 mg: 22 µg/mL of USP Olmesartan Medoxomil RS in *Diluent B* from the *Standard stock solution* 

Sample solution: Pass a portion of the solution under test through a suitable filter of 0.45-µm pore size and discard the first few milliliters of the filtrate. Transfer 5 mL of the filtered test solution to a 10-mL volumetric flask and dilute with *Diluent A* to volume.

Chromatographic system

(See Chromatography (621), System Suitability.)

Mode: LC

Detector: UV 250 nm

Column: 4.6-mm × 15-cm; 5-µm packing L7

Temperatures
Autosampler: 5°
Column: 30°
Flow rate: 1.5 mL/min
Injection volume: 10 μL
System suitability

Sample: Standard solution

[NOTE—The relative retention times for olmesartan and olmesartan medoxomil are 0.45 and 1.00,

respectively.]

Suitability requirements

**Tailing factor:** NMT 2.0 for olmesartan medoxomil **Relative standard deviation:** NMT 2.0% for

olmesartan medoxomil

**Analysis** 

**Samples:** Standard solution and Sample solution Calculate the concentration ( $C_1$ ) of olmesartan medoxomil ( $C_{29}H_{30}N_6O_6$ ) in the Sample solution:

Result = 
$$(r_{IJ}/r_{s}) \times C_{s}$$

 $r_U$  = peak response of olmesartan medoxomil from the Sample solution

r<sub>s</sub> = peak response of olmesartan medoxomil from the Standard solution

C<sub>s</sub> = concentration of USP Olmesartan Medoxomil RS in the Standard solution (mg/mL)

Calculate the concentration ( $C_2$ ) of olmesartan as olmesartan medoxomil ( $C_{29}H_{30}N_6O_6$ ) in the Sample solution:

Result = 
$$(r_U/r_S) \times C_S \times (1/F) \times (M_{r2}/M_{r1})$$

r<sub>U</sub> = peak response of olmesartan from the Sample solution

 $r_{s}$  = peak response of olmesartan medoxomil from the Standard solution

C<sub>s</sub> = concentration of USP Olmesartan Medoxomil RS in the *Standard solution* (mg/mL)

F = relative response factor, 0.88

 $M_{r2}$  = molecular weight of olmesartan medoxomil,

 $M_{rl}$  = molecular weight of olmesartan, 446.50

Calculate the percentage of the labeled amount of olmesartan medoxomil (C<sub>29</sub>H<sub>30</sub>N<sub>6</sub>O<sub>6</sub>) dissolved:

Result = 
$$[(C_1 + C_2) \times D] \times V \times (1/L) \times 100$$

C<sub>1</sub> = concentration of olmesartan medoxomil in the Sample solution (mg/mL)

C<sub>2</sub> = concentration of olmesartan as olmesartan medoxomil in the *Sample solution* (mg/mL)

D = dilution factor for the Sample solution

V = volume of *Medium*, 900 mL

 = label claim for olmesartan medoxomil (mg/ Tablet)

**Tolerances:** NLT 75% (Q) of the labeled amount of olmesartan medoxomil ( $C_{29}H_{30}N_6O_6$ ) is dissolved. **Test 4:** If the product complies with this test, the labeling

indicates that it meets USP Dissolution Test 4.

Medium: 0.1 M hydrochloric acid; 900 mL

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Apparatus 2: 50 rpm

Time: 15 min

Buffer: Dissolve 2.04 g of monobasic potassium

phosphate in 1000 mL of water. Adjust with phosphoric acid to a pH of 3.0.

Mobile phase: Acetonitrile and Buffer (40:60) **Diluent:** Acetonitrile and water (60:40)

**Standard stock solution:** 1.1 mg/mL of USP Olmesartan

Medoxomil RS in Diluent

Standard solution

[Note—Preserve immediately at 2°-8° after preparation.]

For Tablets labeled to contain 5 mg: 5.5 µg/mL of USP Olmesartan Medoxomil RS in Medium from the Standard

For Tablets labeled to contain 20 mg: 22 µg/mL of USP Olmesartan Medoxomil RS in *Medium* from the *Standard* stock solution

For Tablets labeled to contain 40 mg: 44 µg/mL of USP Olmesartan Medoxomil RS in Medium from the Standard

Sample solution: Pass a portion of the solution under test through a suitable filter of 0.45-µm pore size and discard the first 1 mL of the filtrate. [NOTE—Preserve immediately at 2°-8° after preparation.]

Chromatographic system

(See Chromatography (621), System Suitability.)

Mode: LC

Detector: UV 250 nm

Column: 4.0-mm × 12.5-cm; 5-µm packing L1

**Temperatures** Autosampler: 8° Column: 40° Flow rate: 1.5 mL/min Injection volume: 10 µL

System suitability

Sample: Standard solution

[NOTE—The relative retention times for olmesartan and olmesartan medoxomil are 0.24 and 1.00, respectively.]

Suitability requirements

Tailing factor: 0.8–1.5 for olmesartan medoxomil Relative standard deviation: NMT 2.0% for the sum of the peak responses of olmesartan and olmesartan medoxomil

**Analysis** 

**Samples:** Standard solution and Sample solution Calculate the percentage of the labeled amount of olmesartan medoxomil (C<sub>29</sub>H<sub>30</sub>N<sub>6</sub>O<sub>6</sub>) dissolved:

Result = 
$$(r_U/r_S) \times C_S \times V \times (1/L) \times 100$$

= sum of the peak responses of olmesartan and  $r_{U}$ olmesartan medoxomil from the Sample solution

= sum of the peak responses of olmesartan and  $r_{s}$ olmesartan medoxomil from the Standard

= concentration of USP Olmesartan Medoxomil RS  $C_{S}$ in the Standard solution (mg/mL)

= volume of Medium, 900 mL

= label claim of olmesartan medoxomil (mg/Tablet)

Tolerances: NLT 80% (Q) of the labeled amount of olmesartan medoxomil (C<sub>29</sub>H<sub>30</sub>N<sub>6</sub>O<sub>6</sub>) is dissolved.

Test 6: If the product complies with this test, the labeling indicates that it meets USP Dissolution Test 6.

Medium: 0.05 M pH 6.8 phosphate buffer (dissolve 68 g of monobasic potassium phosphate and 9 g of sodium hydroxide in 10,000 mL of water; adjust with diluted

sodium hydroxide solution or diluted phosphoric acid to a pH of 6.8); 900 mL

Apparatus 2: 50 rpm

Time: 30 min

Buffer: Dissolve 6.8 g of monobasic potassium phosphate in 1000 mL of water. Adjust with diluted phosphoric acid

to a pH of 3.0.

Mobile phase: Acetonitrile and Buffer (40:60) Diluent: Acetonitrile and water (50:50)

Standard stock solution A: 0.55 mg/mL of USP Olmesartan Medoxomil RS in Diluent. Sonication may be

needed to dissolve.

For Tablets labeled to contain 5 mg

Standard stock solution B: 5.5 µg/mL of USP Olmesartan Medoxomil RS in Medium from Standard stock solution A

Standard solution: 2.75 µg/mL of USP Olmesartan Medoxomil RS in Mobile phase from Standard stock

For Tablets labeled to contain 20 mg

Standard stock solution C: 22 µg/mL of USP Olmesartan Medoxomil RS in Medium from Standard stock solution A Standard solution: 11 µg/mL of USP Olmesartan Medoxomil RS in Mobile phase from Standard stock solution C

For Tablets labeled to contain 40 mg

Standard stock solution D: 44 µg/mL of USP Olmesartan Medoxomil RS in Medium from Standard stock solution A Standard solution: 22 µg/mL of USP Olmesartan Medoxomil RS in Mobile phase from the Standard stock

Sample solution: Pass a portion of the solution under test through a suitable filter of 0.45-µm pore size. Transfer 5.0 mL of the filtrate into a 10-mL volumetric flask. Dilute with Mobile phase to volume. Pass a portion of the solution through a suitable filter of 0.45-um pore size. [NOTE—The Sample solution is stable for 25 h at 5°.]

Chromatographic system

(See Chromatography (621), System Suitability.)

Mode: LC

Detector: UV 250 nm

Column: 4.6-mm × 15-cm; 5-µm packing L1

**Temperatures** Autosampler: 5° Column: 30° Flow rate: 2.0 mL/min Injection volume: 100 µL

Run time: NLT 1.5 times the retention time of

olmesartan medoxomil System suitability Sample: Standard solution Suitability requirements Tailing factor: NMT 2.0

Relative standard deviation: NMT 2.0%

**Analysis** 

Samples: Standard solution and Sample solution Calculate the percentage of the labeled amount of olmesartan medoxomil ( $C_{29}H_{30}N_6O_6$ ) dissolved:

Result = 
$$(r_U/r_S) \times C_S \times D \times V \times (1/L) \times 100$$

= peak response of olmesartan medoxomil from the  $r_U$ Sample solution

= peak response of olmesartan medoxomil from the  $r_{\scriptscriptstyle S}$ Standard solution

 $C_{S}$ = concentration of USP Olmesartan Medoxomil RS in the Standard solution (mg/mL)

= dilution factor for the Sample solution

= volume of Medium, 900 mL

L = label claim of olmesartan medoxomil (mg/Tablet)

**Tolerances:** NLT 70% (Q) of the labeled amount of olmesartan medoxomil ( $C_{29}H_{30}N_6O_6$ ) is dissolved.

▲Test 7: If the product complies with this test, the labeling

indicates that it meets USP *Dissolution Test 7*. **Medium:** 0.1 N hydrochloric acid; 900 mL

Apparatus 2: 50 rpm

Time: 20 min

Diluent: Acetonitrile and water (60:40)

Standard stock solution: 1.12 mg/mL of USP Olmesartan

Medoxomil RS in Diluent

Standard solution

For Tablets labeled to contain 5 mg: 5.6 µg/mL of USP Olmesartan Medoxomil RS in *Medium* from the *Standard* stock solution

For Tablets labeled to contain 20 mg or 40 mg: 11.2 µg/mL of USP Olmesartan Medoxomil RS in *Medium* from the *Standard stock solution* 

Sample solution: Pass a portion of the solution under test through a suitable filter of 0.45-µm pore size and discard at least the first 5 mL of the filtrate. Dilute with *Medium* to a concentration that is similar to the *Standard solution* if necessary.

Instrumental conditions

(See Ultraviolet-Visible Spectroscopy (857).)

Mode: UV

Analytical wavelength: 257 nm

Cell: 1 cm Blank: Medium Analysis

Samples: Standard solution and Sample solution Calculate the percentage of the labeled amount of olmesartan medoxomil  $(C_{29}H_{30}N_6O_6)$  dissolved:

# Result = $(A_U/A_S) \times C_S \times D \times V \times (1/L) \times 100$

 $A_U$  = absorbance of the Sample solution  $A_S$  = absorbance of the Standard solution

C<sub>s</sub> = concentration of USP Olmesartan Medoxomil RS in the Standard solution (mg/mL)

D = dilution factor of the Sample solution

V = volume of *Medium*, 900 mL L = label claim (mg/Tablet)

**Tolerances:** NLT 80% (Q) of the labeled amount of olmesartan medoxomil ( $C_{29}H_{30}N_6O_6$ ) is dissolved.  $\blacktriangle$  (RB 1-Feb-2020)

 Uniformity of Dosage Units (905): Meet the requirements

# **IMPURITIES**

ORGANIC IMPURITIES

**Buffer:** 0.015 M monobasic potassium phosphate. Adjust with phosphoric acid to a pH of 3.5.

Solution A: Acetonitrile and *Buffer* (20:80) Solution B: Acetonitrile and *Buffer* (79:21)

Mobile phase: See *Table 3*.

Table 3

Time (min)	Solution A (%)	Solution B (%)
0	75	25
10	75	25
35	0	100
45	0	100

**Diluent:** Acetonitrile and water (90:10)

System suitability solution: 0.01 mg/mL each of USP Olmesartan Medoxomil RS and USP Olmesartan Medoxomil Related Compound A RS in *Diluent*Standard solution: 0.01 mg/mL of USP Olmesartan Medoxomil RS in *Diluent* 

**Sensitivity solution:** 0.002 mg/mL of USP Olmesartan Medoxomil RS in *Diluent* from the *Standard solution* **Sample solution:** Nominally 1 mg/mL of olmesartan

medoxomilin *Diluent* prepared as follows. Dissolve a suitable number of Tablets in *Diluent*. Sonicate and/or shake occasionally to disintegrate the Tablets completely. Centrifuge and pass the supernatant through a suitable filter of 0.45-µm pore size.

Chromatographic system

(See Chromatography (621), System Suitability.)

Mode: LC

Detector: UV 250 nm

Column: 4.6-mm × 10-cm; 3.5-µm packing L7

Column temperature: 40° Flow rate: 1 mL/min Injection volume: 10 μL

System suitability

Samples: System suitability solution and Sensitivity solution

Suitability requirements

**Resolution:** NLT 5 between olmesartan medoxomil and olmesartan medoxomil related compound A, *System* suitability solution

Relative standard deviation: NMT 2.0% for both peaks,

System suitability solution

Signal-to-noise ratio: NLT 30, Sensitivity solution

Analysis

F

**Samples:** Standard solution and Sample solution Calculate the percentage of each degradation product in the portion of Tablets taken:

Result = 
$$(r_U/r_S) \times (C_S/C_U) \times (1/F) \times 100$$

 $r_U$  = peak response of each degradation product from the *Sample solution* 

 $r_s$  = peak response of olmesartan medoxomil from the Standard solution

C<sub>s</sub> = concentration of USP Olmesartan Medoxomil RS in the *Standard solution* (mg/mL)

C<sub>U</sub> = nominal concentration of olmesartan medoxomil in the Sample solution (mg/mL)

= relative response factor (see *Table 4*)

**Acceptance criteria:** See *Table 4*. Disregard peaks below 0.1%.

Table 4

Tuble 4			
Name	Relative Retention Time	Relative Response Factor	Acceptance Criteria, NMT (%)
Olmesartan <sup>a</sup>	0.2	1.0	2.5
Olmesartan medoxomil related compound A <sup>b</sup>	0.7	1.6	_
Olmesartan medoxomil	1.0	_	_
Olmesartan dimer <sup>c</sup>	1.2	0.8	0.5
Olefinic impurity <sup>d</sup>	1.5	1.0	0.6
Any unspecified degradation product	_	1.0	0.2

Table 4 (continued)

Name	Relative	Relative	Acceptance
	Retention	Response	Criteria,
	Time	Factor	NMT (%)
Total degradation products	_	_	4.1

 $<sup>^{\</sup>rm a}$  1-{[2'-(1*H*-Tetrazol-5-yl)biphenyl-4-yl]methyl}-4-(2-hydroxypropan-2-yl)-2-propyl-1*H*-imidazole-5-carboxylic acid.  $^{\rm b}$  This is a process-related impurity that is controlled in the drug substance.

### **ADDITIONAL REQUIREMENTS**

- PACKAGING AND STORAGE: Preserve in well-closed containers. Store at controlled room temperature.
- **LABELING:** When more than one *Dissolution* test is given, the labeling states the *Dissolution* test used only if *Test 1* is not used.
- USP REFERENCE STANDARDS (11)
   USP Olmesartan Medoxomil RS
   USP Olmesartan Medoxomil Related Compound A RS
   1-{[2'-(1*H*-Tetrazol-5-yl)biphenyl-4-yl]methyl}-4,4 dimethyl-2-propyl-1*H*-furo[3,4-d]imidazol-6(4*H*)-one.
   C<sub>24</sub>H<sub>24</sub>N<sub>6</sub>O<sub>2</sub> 428.49

<sup>&</sup>lt;sup>b</sup> This is a process-related impurity that is controlled in the drug substance.

<sup>c</sup> 1-({2'-(1*H*-Tetrazol-5-yl)-[1,1'-biphenyl]-4-yl}methyl)-4-(2-{[1-({2'-(1*H*-tetrazol-5-yl)-[1,1'-biphenyl]-4-yl}methyl)-4-(2-hydroxypropan-2-yl)-2-propyl-1*H*-imidazole-5-carboxylic

d (5-Methyl-2-oxo-1,3-dioxol-4-yl)methyl 1-((2'-(1H-tetrazol-5-yl)biphenyl-4-yl)methyl)-4-(prop-1-en-2-yl)-2-propyl-1*H*-imidazole-5-carboxylate.