

Product Information

Product ID T1644
CAS No. 144701-48-4
Chemical Name 4'-[(1,4'-Dimethyl-2'-propyl[2,6'-bi-1H-benzimidazol]-1'-yl)methyl][1,1'-biphenyl]-2-carboxylic acid

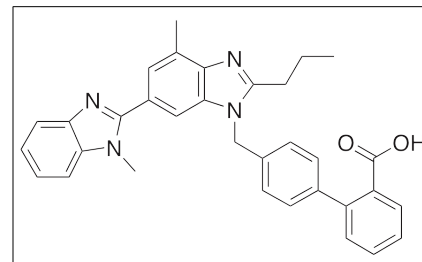
Synonym BIBR 277, Micardis, Pritor

Formula C₃₃H₃₀N₄O₂
Formula Wt. 514.63
Melting Point 261-263 °C
Purity ≥98%
Solubility Soluble in DMSO (1.2mg/mL). Insoluble in water. Chloroform.

Store Temp Ambient

Ship Temp Ambient

Description Telmisartan is a long-acting antagonist at angiotensin II type 1 (AT II) receptors that is clinically used to treat hypertension. Telmisartan exhibits antihypertensive, anti-diabetic, anti-obesity, anti-inflammatory, and anti-hyperlipidemic activities. Telmisartan decreases levels of total cholesterol and LDL in vivo. Telmisartan also decreases weight gain and increases activity endurance and oxygen consumption in other animal models. This compound is also a selective modulator of PPARγ/δ, decreasing insulin, glucose, and triglyceride levels in high fat diet-fed rats. In endothelial cells, telmisartan decreases expression of MCP-1 and VCAM-1 and prevents activation of NF-κB.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
T1644	50 mg	\$104.90
T1644	100 mg	\$180.00
T1644	500 mg	\$524.50

References Xu S, Song H, Huang M, et al. Telmisartan inhibits the proinflammatory effects of homocysteine on human endothelial cells through activation of the peroxisome proliferator-activated receptor-δ pathway. *Int J Mol Med.* 2014 Sep;34(3):828-34. PMID: 24994548.

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Feng X, Luo Z, Ma L, et al. Angiotensin II receptor blocker telmisartan enhances running endurance of skeletal muscle through activation of the PPAR-δ/AMPK pathway. *J Cell Mol Med.* 2011 Jul;15(7):1572-81. PMID: 20477906.

Inoue T, Taguchi I, Abe S, et al. Inhibition of intestinal cholesterol absorption might explain cholesterol-lowering effect of telmisartan. *J Clin Pharm Ther.* 2011 Feb;36(1):103-10. PMID: 21198725.

Benson SC, Pershadsingh HA, Ho CI, et al. Identification of telmisartan as a unique angiotensin II receptor antagonist with selective PPARgamma-modulating activity. *Hypertension.* 2004 May;43(5):993-1002. PMID: 15007034.

Okada M, Kosaka N, Hoshino Y, et al. Effects of captopril and telmisartan on matrix metalloproteinase-2 and -9 expressions and development of left ventricular fibrosis induced by isoprenaline in rats. *Biol Pharm Bull.* 2010;33(9):1517-1521. PMID: 20823567.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.