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DATASHEET

Telmisartan

Product overview

Name	Telmisartan
Cat No	HB2558
Alternative names	BIBR 277
Biological action	Antagonist
Purity	>98%
Description	AT ₁ antagonist and PPAR _γ partial agonist

Biological Data

Biological description AT₁ (Angiotensin II receptor type 1) antagonist / blocker ($K_i = 3.7$ nM). It is also a PPAR_γ partial agonist.

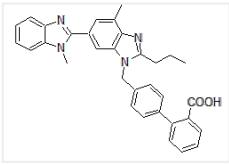
Shows anti-hypertensive effects.

Recently investigated as part of COVID-19 compound repurposing.

Solubility & Handling

Storage instructions	RT
Solubility overview	Soluble in DMSO (20mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

Chemical Data

Chemical name	2-(4-{[4-Methyl-6-(1-methyl-1H-1,3-benzodiazol-2-yl)-2-propyl-1H-1,3-benzodiazol-1-yl]methyl}phenyl)benzoic acid
Molecular Weight	514.62
Chemical structure	
Molecular Formula	C ₃₃ H ₃₀ N ₄ O ₂
CAS Number	144701-48-4
PubChem identifier	65999
SMILES	O=C(O)c1ccccc1c2ccc(cc2)Cn3c4cc(cc4nc3CCC)C)c5nc6cccc6n5C
InChi	InChi=1S/C33H30N4O2/c1-4-9-30-35-31-21(2)18-24(32-34-27-12-7-8-13-28(27)36(32)3)19-29(31)37(30)20-22-14-16-23(17-15-22)25-10-5-6-11-26(25)33(38)39/h5-8,10-19H,4,9,20H2,1-3H3,(H,38,39)
InChiKey	RMMXLENWKUUMAY-UHFFFAOYSA-N
MDL number	MFCD00918125
Appearance	White solid

References

6-Substituted benzimidazoles as new nonpeptide angiotensin II receptor antagonists: synthesis, biological activity, and structure-activity relationships

Ries et al (1993) J Med Chem 36(25)

PubMedID [8258826](#)

Pharmacological characterization of the novel nonpeptide angiotensin II receptor antagonist, BIBR 277

Wienen et al (1993) Br J Pharmacol. 110(1)

PubMedID [8220885](#)

Telmisartan as tentative angiotensin receptor blocker therapeutic for COVID-19

Rothlin et al (2020) Drug Dev Res. 1110

PubMedID [32356926](#)
