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## DATASHEET

Telmisartan

### Product overview

|                          |  |
|--------------------------|--|
| <b>Name</b>              | Telmisartan  |
| <b>Cat No</b>            | HB2558   |
| <b>Alternative names</b> | BIBR 277   |
| <b>Biological action</b> | Antagonist   |
| <b>Purity</b>            | >98%   |
| <b>Description</b>       | AT <sub>1</sub> antagonist and PPAR <sub>γ</sub> partial agonist |

### Biological Data

**Biological description** AT<sub>1</sub> (Angiotensin II receptor type 1) antagonist / blocker ( $K_i = 3.7$  nM). It is also a PPAR<sub>γ</sub> partial agonist.

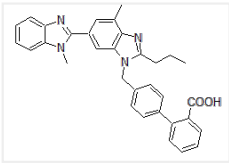
Shows anti-hypertensive effects.

Recently investigated as part of COVID-19 compound repurposing.

### Solubility & Handling

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

### Chemical Data

|                           |   |
|---------------------------|---|
| <b>Chemical name</b>      | 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  |
| <b>Molecular Weight</b>   | 514.62  |
| <b>Chemical structure</b> |    |
| <b>Molecular Formula</b>  | C <sub>33</sub> H <sub>30</sub> N <sub>4</sub> O <sub>2</sub>   |
| <b>CAS Number</b>         | 144701-48-4   |
| <b>PubChem identifier</b> | 65999   |
| <b>SMILES</b>             | O=C(O)c1ccccc1c2ccc(cc2)Cn3c4cc(cc4nc3CCC)C)c5nc6ccccc6n5C  |
| <b>InChi</b>              | 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) |
| <b>InChiKey</b>           | RMMXLENWKUUMAY-UHFFFAOYSA-N   |
| <b>MDL number</b>         | MFCD00918125  |
| <b>Appearance</b>         | 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](#)

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