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# DATASHEET

## Valsartan

### Product overview

<b>Name</b>	Valsartan
<b>Cat No</b>	HB3381
<b>Biological action</b>	Antagonist
<b>Purity</b>	>98%
<b>Description</b>	Selective angiotensin AT <sub>1</sub> antagonist

### Biological Data

**Biological description** Selective angiotensin AT<sub>1</sub> antagonist (IC<sub>50</sub> = 44.9 nM) that displays ~30,000-fold selectivity over AT<sub>2</sub> receptors.

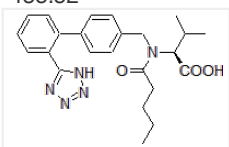
Shows anti-hypertensive effects.

Recently investigated as part of COVID-19 compound repurposing.

### Solubility & Handling

<b>Storage instructions</b>	Room temperature
<b>Solubility overview</b>	Soluble in DMSO (100mM)
<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>	(S)-3-methyl-2-(N-{{[2'-(2H-1,2,3,4-tetrazol-5-yl)biphenyl-4-yl]methyl}pentanamido)butanoic acid
<b>Molecular Weight</b>	435.52
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>24</sub> H <sub>29</sub> N <sub>5</sub> O <sub>3</sub>
<b>CAS Number</b>	137862-53-4
<b>PubChem identifier</b>	60846
<b>SMILES</b>	CCCCC(=O)N(CC1=CC=C(C=C1)C2=CC=CC=C2C3=NNN=N3)C(C(C)C)C(=O)O
<b>InChi</b>	InChI=1S/C24H29N5O3/c1-4-5-10-21(30)29(22(16(2)3)24(31)32)15-17-11-13-18(14-12-17)19-8-6-7-9-20(19)23-25-27-28-26-23/h6-9,11-14,16,22H,4-5,10,15H2,1-3H3,(H,31,32)(H,25,26,27,28)/t22-m/0/s1
<b>InChiKey</b>	ACWBQPMHZXGDFX-QFIPXVFZSA-N
<b>MDL number</b>	MFCD00865840
<b>Appearance</b>	White solid

### References

### **Valsartan: more than a decade of experience**

Black HR *et al* (2009) *Drugs* 69(17)

**PubMedID**

[19911855](#)

### **Pharmacological profile of valsartan: a potent, orally active, nonpeptide antagonist of the angiotensin II AT1-receptor subtype**

Criscione L *et al* (1993) *Br J Pharmacol* 110(2)

**PubMedID**

[8242249](#)

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