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## DATASHEET

BQ-123

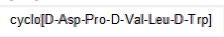
### Product overview

<b>Name</b>	BQ-123
<b>Cat No</b>	HB3213
<b>Biological description</b>	BQ-123 is a potent and selective ET <sub>A</sub> antagonist (K <sub>i</sub> values are 17 nM and 11 μM at ET <sub>A</sub> and ET <sub>B</sub> receptors respectively).
<b>Biological action</b>	Induces vasodilation.
<b>Purity</b>	Peptide
<b>Description</b>	>95%
	Potent, selective ET <sub>A</sub> antagonist

### Solubility & Handling

<b>Storage instructions</b>	-20°C
<b>Solubility overview</b>	Soluble in water (0.4 mg/ml)
<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>	WDPVL (modifications: Trp-1 = D-Trp, Val-4 = D-Val, Cyclized)
<b>Molecular Weight</b>	610.71
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>31</sub> H <sub>42</sub> N <sub>6</sub> O <sub>7</sub>
<b>Sequence (one letter)</b>	WDPVL
<b>Modifications</b>	Trp-1 = D-Trp, Val-4 = D-Val, Cyclized
<b>CAS Number</b>	136553-81-6
<b>PubChem identifier</b>	443289
<b>SMILES</b>	CC(C)C[C@H]1C(=O)N[C@@H](C(=O)N[C@@H](C(=O)N2CCC[C@H]2C(=O)N[C@@H](C(=O)N1)C(C)C)CC(=O)O)CC3=CNC4=CC=CC=C43
<b>InChiKey</b>	VYCMAAOURFJIHD-PJNXIOHISA-N
<b>MDL number</b>	MFCD00133204

### References

#### Defining the affinity and receptor sub-type selectivity of four classes of endothelin antagonists in clinically relevant human cardiovascular tissues

Maguire JJ *et al* (2012) Life Sci 91(13-14)  
**PubMedID** [22634326](#)

#### In vitro biological profile of a highly potent novel endothelin (ET) antagonist BQ-123 selective for the ETA receptor

Ihara M *et al* (1992) J Cardiovasc Pharmacol 20 Suppl 12  
**PubMedID** [1282942](#)

#### Use of the endothelin antagonists BQ-123 and PD 142893 to reveal three endothelin receptors mediating smooth muscle

**contraction and the release of EDRF**

Warner TD *et al* (1993) Br J Pharmacol 110(2)

**PubMedID** [8242251](#)

**Endothelins and their inhibition in the human skin microcirculation: ET[1-31], a new vasoconstrictor peptide**

Leslie SJ *et al* (2004) Br J Clin Pharmacol 57(6)

**PubMedID** [15151517](#)

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