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## DATASHEET

BQ-123

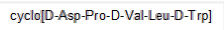
### Product overview

|                               |                                                                                                                                                                                                     |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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).<br><br>Induces vasodilation. |
| <b>Biological action</b>      | Peptide                                                                                                                                                                                             |
| <b>Purity</b>                 | >95%                                                                                                                                                                                                |
| <b>Description</b>            | 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>                | <chem>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</chem> |
| <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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