

Product Data Sheet

Product Name: Angiotensin 1/2 (1-7) amide

Cat. No.: GP10144

Chemical Properties

Cas. No.

SMILES O=C(N)[C@@H]1N(C([C@@H](NC([C@@H](NC([C@@H](NC([C@@H](NC([C@@H](NC(CNC)=O)CCCNC(N)=N)=O)C)=O)CC2=CC=C(O)C=C2)=O)[C@@H](C)CC)=O)CC3=CNC=N3)=O)CCC1

Formula C₄₁H₆₃N₁₃O₁₀

M.Wt

898.02

Solubility ≥ 89.8mg/mL in DMSO

Storage

Store at -20°C

General tips

For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

Angiotensin I/II (1-7) amide (H₂N-Asp-Arg-Val-Tyr-Ile-His-Pro-amide) is a peptide analog to angiotensin II that is used as a vasopressor in the treatment of certain types of shock and circulatory collapse.

Angiotensin II (Asp-Arg-Val-Tyr-Ile-His-Pro-Phe | His-Leu) is an octapeptide that is converted from Angiotensin I (AI) through the removal of two C-terminal residues by angiotensin-converting enzyme (ACE), primarily by ACE within the lung (but also those present in endothelial and kidney epithelial cells). Ang-(1-7) is an endogenous peptide fragment that can be produced from Ang I or Ang II via endo- or carboxy-peptidases respectively. [1]

Angiotensin I/II (1-7) amide is an amide derivative of angiotensin II that is a powerful vasoconstrictor and vasopressor, and is used in the treatment of certain hypotensive states. Angiotensin I/II (1-7) amide is usually administered by slow intravenous infusion, and sometimes intramuscularly or subcutaneously.

References:

Caution: Product has not been fully validated for medical applications. For research use only.

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1. Santos et al (2000) Angiotensin-(1-7): an update. Regul.Pept. 91 45.

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