

Certificate of Analysis

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Product Name: HOE 140
CAS Number: 130308-48-4

Catalog No.: 3014 **Batch No.:** 13

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₅₉H₈₉N₁₉O₁₃S
Batch Molecular Weight: 1304.52
Physical Appearance: White lyophilised solid
Counter Ion: Acetate
Solubility: Soluble to 1 mg/ml in water
Storage: Store at -20°C
Peptide Sequence: D-Arg-Arg-Pro-Hyp-Gly-Thi-Ser-D-Tic-Oic-Arg

2. ANALYTICAL DATA

HPLC: Shows 97.3% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid		Theoretical	Actual	Amino Acid		Theoretical	Actual
Ala				Lys			
Arg	3.00		2.99	Met			
Asx				Phe			
Cys				Pro	1.00		1.01
Glx				Ser	1.00		0.71
Gly	1.00		1.00	Thr			
His				Trp			
Ile				Tyr			
Leu				Val			

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

HOE 140 is a potent and selective bradykinin B₂ receptor antagonist (pA₂ = 9.04). Also inhibits aminopeptidase N (K_i = 9.1 μM).

Physical and Chemical Properties:

Batch Molecular Formula: C₅₉H₈₉N₁₉O₁₃S
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Physical Appearance: White lyophilised solid

Peptide Sequence:

D-Arg-Arg-Pro-Hyp-Gly-Thi-Ser-D-Tic-Oic-Arg

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 1 mg/ml in water

This product is supplied in lyophilized form. It may appear as a solid, gel or film and be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Counter Ion: Acetate

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Peptides in solution are much less stable than in lyophilized form. This is especially true for peptides whose sequences contain amino acids such as Cys, Met, Trp, Asn, Gln, and N-terminal Glu.

Therefore we recommend storing peptides in solution for as short a time as possible. Avoid repeated freeze thaw cycles by dividing the peptide solution into aliquots and storing the aliquots at -20°C. Any portion of an aliquot unused after thawing should be discarded.

Peptides stored in solution can occasionally be susceptible to bacterial degradation. We recommend using sterile solutions or passing the peptide solution through a 0.2 μm filter to remove potential bacterial contamination whenever possible.

References:

Bawolak et al (2006) The bradykinin B₂ receptor antagonist icatibant (Hoe 140) blocks aminopeptidase N at micromolar concentrations: off-target alterations of signaling mediated by the bradykinin B₁ and angiotensin receptors. *Eur.J.Pharmacol.* **551** 108. PMID: 17026984.

Feletou et al (1994) Agonistic and antagonistic properties of the bradykinin B₂ receptor antagonist, Hoe 140, in isolated blood vessels from different species. *Br.J.Pharmacol.* **112** 683. PMID: 8075888.

Hock et al (1991) Hoe 140 a new potent and long acting bradykinin-antagonist: *in vitro* studies. *Br.J.Pharmacol.* **102** 769. PMID: 1364851.

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