

Certificate of Analysis

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Product Name: ICI 216,140
CAS Number: 124001-41-8

Catalog No.: 0823 **Batch No.:** 8

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄₅H₆₅N₁₃O₈
Batch Molecular Weight: 916.09
Physical Appearance: White lyophilised solid
Net Peptide Content: 96%
Counter Ion: Trifluoroacetate
Storage: Desiccate at -20°C
Peptide Sequence: *N*-Isobutyryl-His-Trp-Ala-Val-D-Ala-His-Leu-NHMe

2. ANALYTICAL DATA

HPLC: Shows >96.5% purity
Mass Spectrum: Consistent with structure

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

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel: +1 612 379 2956

Product Name: ICI 216,140
CAS Number: 124001-41-8

Catalog No.: 0823 **Batch No.:** 8

Description:

Potent antagonist of bombesin/gastrin releasing peptide.

Physical and Chemical Properties:

Batch Molecular Formula: C₄₅H₆₅N₁₃O₈

Batch Molecular Weight: 916.09

Physical Appearance: White lyophilised solid

Peptide Sequence:

N-Isobutyryl-His-Trp-Ala-Val-D-Ala-His-Leu-NHMe

Storage: Desiccate at -20°C

Solubility & Usage Info:

Most peptides are soluble in distilled water. If the peptide does not completely dissolve addition of 0.1M acetic acid (those containing Arg, Lys, His) or 0.1M ammonia (those containing Asp, Glu) may help. Occasionally 10% DMSO or DMF may be required for extremely insoluble peptides. In addition to these measures sonification may also be helpful.

This product is supplied as a lyophilised solid and may be very hard to visualise. 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.

Net Peptide Content: 96% (Remaining weight made up of counterions and residual water).

Counter Ion: Trifluoroacetate

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 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:

Camble et al (1989) N-Isobutyryl-His-Trp-Ala-Val-D-Ala-His-Leu-NHMe (ICI 216,140) a potent *in vivo* antagonist analog of bombesin/gastrin releasing peptide (BN/GRP) derived from the C-terminal sequence lacking the final methionine residue. *Life Sci.* **45** 1521. PMID: 2555638.

Camble et al (1989) ICI-216,140 and other potent *in vivo* antagonist analogs of bombesin/gastrin releasing peptide. *Pept.Chem.,Struct.Biol.,Proc.Am.Pept.Symp.* 11th mee 174.

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