TOCRIS a bio-techne brand

Print Date: Jan 10th 2023

Certificate of Analysis

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Product Name: **MCH (human, mouse, rat)** **Catalog No.: 3806** **Batch No.: 8**

CAS Number: 128315-56-0

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{105}H_{160}N_{30}O_{26}S_4$

Batch Molecular Weight: 2386.84

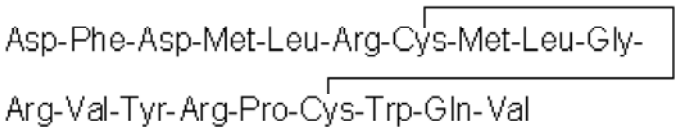
Physical Appearance: White lyophilised solid

Counter Ion: Trifluoroacetate

Solubility: Soluble to 1 mg/ml in water

Storage: Store at -20°C

Peptide Sequence:



2. ANALYTICAL DATA

HPLC: Shows 95.2% purity

Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid	Theoretical	Actual	Amino Acid	Theoretical	Actual
Ala			Lys		
Arg	3.00	2.97	Met	2.00	1.97
Asx	2.00	2.01	Phe	1.00	1.00
Cys	2.00	0.89	Pro	1.00	1.00
Glx	1.00	1.00	Ser		
Gly	1.00	1.00	Thr		
His			Trp	1.00	0.18
Ile			Tyr	1.00	0.99
Leu	2.00	1.95	Val	2.00	2.11

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Product Name: **MCH (human, mouse, rat)** **Catalog No.: 3806** **8**

CAS Number: 128315-56-0

Description:

MCH (human, mouse, rat) is a potent endogenous agonist at melanin-concentration hormone (MCH) receptors (IC_{50} values are 0.3 and 1.5 nM and EC_{50} values are 3.9 and 0.1 nM at MCH_1 and MCH_2 receptors respectively). Increases food intake in vivo.

Physical and Chemical Properties:

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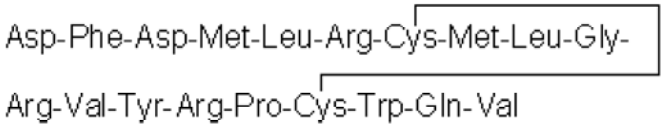

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 1 mg/ml in water

This product is supplied as a lyophilized solid and may 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: 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:

Sailer *et al* (2001) Identification and characterization of a second melanin-concentrating hormone receptor, MCH-2R. Proc.Natl.Acad.Sci.USA ***98*** 7564.