

Certificate of Analysis

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Product Name: A-71623
CAS Number: 130408-77-4

Catalog No.: 2411 **Batch No.:** 11

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄₄H₅₆N₈O₉
Batch Molecular Weight: 840.97
Physical Appearance: White lyophilised solid
Counter Ion: Ammonium
Solubility: Soluble to 1 mg/ml in 20mM PBS buffer
Storage: Store at -20°C
Peptide Sequence: Boc-Trp-Lys(Tac)-Asp-N-methyl-Phe-NH₂

2. ANALYTICAL DATA

HPLC: Shows 98.8% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical		Actual		Amino Acid Theoretical		Actual	
Ala				Lys	1.00	0.99	
Arg				Met			
Asx	1.00	1.01		Phe			
Cys				Pro			
Glx				Ser			
Gly				Thr			
His				Trp	1.00	Not Detected	
Ile				Tyr			
Leu				Val			

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

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Product Name: A-71623

Catalog No.: 2411

Batch No.: 11

CAS Number: 130408-77-4

Description:

A-71623 is a potent CCK₁ agonist (IC₅₀ = 3.7 nM) with 1200-fold selectivity over the CCK₂ receptor. Suppresses food intake following central or peripheral administration.

Physical and Chemical Properties:

Batch Molecular Formula: C₄₄H₅₆N₈O₉

Batch Molecular Weight: 840.97

Physical Appearance: White lyophilised solid

Peptide Sequence:

Boc-Trp-Lys(Tac)-Asp-N-methyl-Phe-NH₂

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 1 mg/ml in 20mM PBS buffer

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: Ammonium

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:

Asin et al (1992) A-71623, a selective CCK-A receptor agonist, suppresses food intake in the mouse, dog, and monkey. *Pharmacol.Biochem.Behav.* **42** 699. PMID: 1513850.

DeNinno et al (1990) Development of CCK-tetrapeptide analogues as potent and selective CCK-A receptor agonists. *J.Med.Chem.* **33** 2951.

Lin et al (1990) Characterization of two novel cholecystokinin tetrapeptide (30-33) analogues, A-71623 and A-70874, that exhibit high potency and selectivity for cholecystokinin-A receptors. *Mol.Pharmacol.* **39** 346.

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