Product Name: A-71623  
Catalog No.: 2411  
Batch No.: 5  

CAS Number: 130408-77-4  

IUPAC Name: \(N^\alpha-[(1,1-Dimethylethoxy)carbonyl]-L-tryptophyl-N^\varepsilon-[[2-methylphenyl]amino]carbonyl]-L-lysyl-L-\alpha-aspartyl-N^\alpha-methyl-L-phenylalaninamide\)

1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** \(C_{44}H_{56}N_8O_9\)
- **Batch Molecular Weight:** 840.97
- **Physical Appearance:** White lyophilised solid
- **Net Peptide Content:** 91%
- **Counter Ion:** Free Acid
- **Solubility:** Soluble to 1 mg/ml in 20mM PBS buffer
- **Storage:** Store at -20°C

2. ANALYTICAL DATA

- **HPLC:** Shows 99% purity
- **Mass Spectrum:** Consistent with structure

3. AMINO ACID ANALYSIS DATA

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</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: A-71623
Catalog No.: 2411

CAS Number: 130408-77-4
IUPAC Name: N-[(1,1-Dimethylethoxy)carbonyl]-L-tryptophyl-N^6-[[2-methylphenyl]amino]carbonyl]-L-lysyl-L-α-aspartyl-Nα-methyl-L-phenylalaninamide

Description:
A-71623 is a potent CCK_1 agonist (IC_{50} = 3.7 nM) with 1200-fold selectivity over the CCK_2 receptor. Suppresses food intake following central or peripheral administration.

Physical and Chemical Properties:
- Batch Molecular Formula: C_{44}H_{56}N_{19}O_{8}
- Batch Molecular Weight: 840.97
- Physical Appearance: White lyophilised solid

Peptide Sequence:

Storage: Store at -20°C

Solubility & Usage Info:
Soluble to 1 mg/ml in 20mM PBS buffer
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.

Net Peptide Content: 91% (Remaining weight made up of counterions and residual water).

Counter Ion: Free Acid

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, Gin, 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: