

Certificate of Analysis

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Product Name: BIBO 3304 trifluoroacetate **Catalog No.:** 2412 **Batch No.:** 4
CAS Number: 2310085-85-7
IUPAC Name: *N*-[(1*R*)-1-[[[4-[[[(Aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]- α -phenyl-benzeneacetamide ditrifluoroacetate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₉H₃₅N₇O₃·2CF₃CO₂H

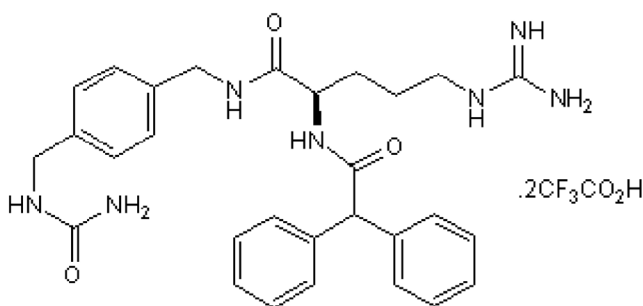
Batch Molecular Weight: 757.69

Physical Appearance: White solid

Solubility: DMSO to 100 mM
ethanol to 20 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.4% purity

Chiral HPLC: Shows 99.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: [α]_D = -6.9 (Concentration = 1, Solvent = DMSO)

Microanalysis:

Carbon Hydrogen Nitrogen

Theoretical	53.53	5.08	13.45
Found	54.04	5.31	13.91

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

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Description:

BIBO 3304 trifluoroacetate is a high affinity NPY Y₁ receptor antagonist (IC₅₀ values are 0.38 and 0.72 nM at human and rat receptors respectively) that displays > 2600-fold selectivity over Y₂, Y₄ and Y₅ receptors. Inhibits NPY- and fasting-induced feeding in vivo following central administration. Also antagonizes anxiolytic-like effects of NPY.

Physical and Chemical Properties:

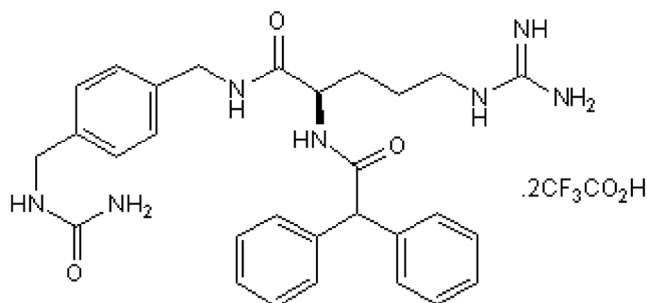
Batch Molecular Formula: C₂₉H₃₅N₇O₃·2CF₃CO₂H

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Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 20 mM

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).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Lecklin *et al* (2002) Receptor subtypes Y₁ and Y₅ mediate neuropeptide Y induced feeding in the guinea-pig. *Br.J.Pharmacol.* **135** 2029. PMID: 11959807.

Sajdyk *et al* (1999) Amygdalar neuropeptide Y Y1 receptors mediate the anxiolytic-like actions of neuropeptide Y in the social interaction test. *Eur.J.Pharmacol.* **368** 143. PMID: 10193650.

Wieland *et al* (1998) Subtype selectivity of the novel nonpeptide neuropeptide Y Y1 receptor antagonist BIBO 3304 and its effect on feeding in rodents. *Br.J.Pharmacol.* **125** 549. PMID: 9806339.

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