

Product Name: BIBP 3226 trifluoroacetate

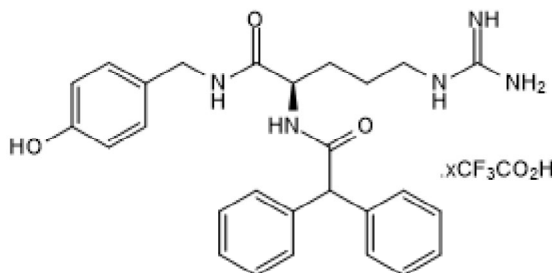
Catalog No.: 2707

Batch No.: 4

IUPAC Name: *N*-[(1*R*)]-4-[(Aminoiminomethyl)amino-1-[[[(4-hydroxyphenyl)methyl]amino]carbonyl]butyl- α -phenylbenzeneacetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₇H₃₁N₅O₃.
Batch Molecular Weight: 473.57
Physical Appearance: White solid
Solubility: water to 1 mg/ml
DMSO to 50 mg/ml
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 97.9% purity
Chiral HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = +10.3 (Concentration = 0.1, Solvent = Water)
Net product content : 70%

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

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IUPAC Name: N-[(1R)-4-[(Aminoiminomethyl)amino-1-[[[(4-hydroxyphenyl)methyl]amino]carbonyl]butyl- α -phenyl]benzeneacetamide

Description:

BIBP 3226 trifluoroacetate is a mixed non-peptide neuropeptide Y Y₁ (NPY Y₁) and neuropeptide FF (NPFF) receptor antagonist (K_i values are 1.1, 79, 108, > 1000, > 1000 and >1000 for rNPY Y₁, hNPFF₂, rNPFF, rNPY Y₂, rNPY Y₄ and rNPY Y₅ respectively). Produces an anxiogenic-like effect in rats following i.c.v. administration.

Physical and Chemical Properties:

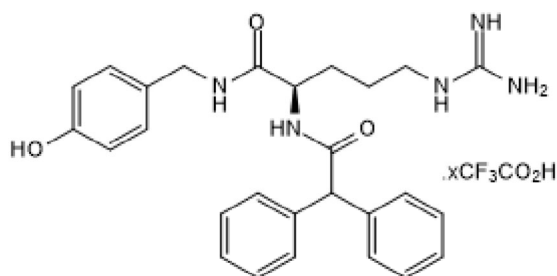
Batch Molecular Formula: C₂₇H₃₁N₅O₃.

Batch Molecular Weight: 473.57

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C. This product is packaged under an inert atmosphere.

Solubility & Usage Info:

water to 1 mg/ml
DMSO to 50 mg/ml

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.

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.

Other Information:

Molecular Weight: 473.57 (Free base)

References:

Fang et al (2006) In vivo inhibition of neuropeptide FF agonism by BIBP3226, an NPY Y₁ receptor antagonist. *Peptides* **27** 2207. PMID: 16762456.

Mollereau et al (2001) Agonist and antagonist activities on human NPFF2 receptors of the NPY ligands GR231118 and BIBP3226. *Br.J.Pharmacol.* **133** 1. PMID: 11325787.

Kask et al (1996) Anxiogenic-like effect of the neuropeptide Y Y₁ receptor antagonist BIBP3226: antagonism with D.pam. *Eur.J.Pharmacol.* **317** R3. PMID: 8997632.

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