

**Product Name:** BIBP 3226 trifluoroacetate

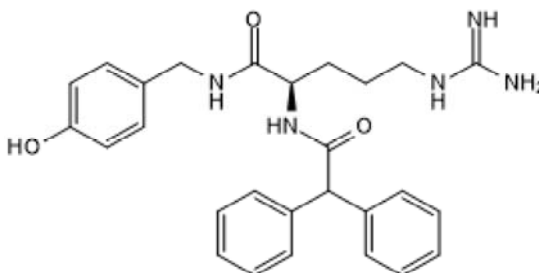
**Catalog No.:** 2707

**Batch No.:** 3

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

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>27</sub>H<sub>31</sub>N<sub>5</sub>O<sub>3</sub>·1.5CF<sub>3</sub>CO<sub>2</sub>H  
**Batch Molecular Weight:** 644.6  
**Physical Appearance:** Off-white solid  
**Solubility:** water to 10 mM with sonication  
DMSO to 100 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 98.2% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Optical Rotation:** [α]<sub>D</sub> = +18.2 (Concentration = 1, Solvent = Water)  
**Microanalysis:**

	Carbon Hydrogen Nitrogen		
Theoretical	55.9	5.08	10.86
Found	55.58	4.82	11.05

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

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**Description:**

Mixed non-peptide neuropeptide Y Y<sub>1</sub> (NPY Y<sub>1</sub>) and neuropeptide FF (NPFF) receptor antagonist (K<sub>i</sub> values are 1.1, 79, 108, > 1000, > 1000 and >1000 for rNPY Y<sub>1</sub>, hNPFF<sub>2</sub>, rNPFF, rNPY Y<sub>2</sub>, rNPY Y<sub>4</sub> and rNPY Y<sub>5</sub> respectively). Produces an anxiogenic-like effect in rats following i.c.v. administration.

**Physical and Chemical Properties:**

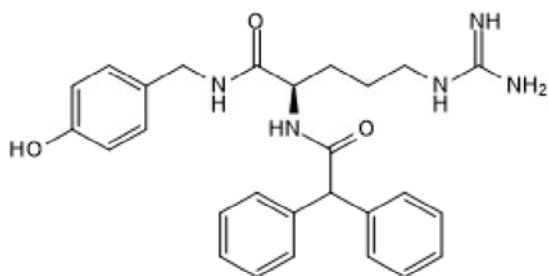
Batch Molecular Formula: C<sub>27</sub>H<sub>31</sub>N<sub>5</sub>O<sub>3</sub>.1.5CF<sub>3</sub>CO<sub>2</sub>H

Batch Molecular Weight: 644.6

Physical Appearance: Off-white solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

water to 10 mM with sonication

DMSO to 100 mM

When purchased as a 1mg unit, 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.

**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. Our standard recommendations are:

**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:**

This product is sold as a TFA salt. The exact stoichiometry of the salt is batch dependant.

**References:**

**Fang et al** (2006) In vivo inhibition of neuropeptide FF agonism by BIBP3226, an NPY Y<sub>1</sub> 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 Y<sub>1</sub> receptor antagonist BIBP3226: antagonism with diazepam. *Eur.J.Pharmacol.* **317** R3. PMID: 8997632.

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