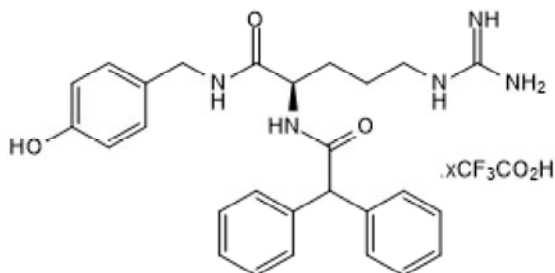


**Product Name:** BIBP 3226 trifluoroacetate **Catalog No.:** 2707 **Batch No.:** 4  
**IUPAC Name:** *N*-[(1*R*)]-4-[(Aminoiminomethyl)amino-1-[[[(4-hydroxyphenyl)methyl]amino]carbonyl]butyl- $\alpha$ -phenylbenzeneacetamide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>27</sub>H<sub>31</sub>N<sub>5</sub>O<sub>3</sub>.  
**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  
<sup>1</sup>H NMR: Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Optical Rotation:** [α]<sub>D</sub> = +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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**Catalog No.:** 2707

**Batch No.:** 4

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

**Description:**

BIBP 3226 trifluoroacetate is a 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:**

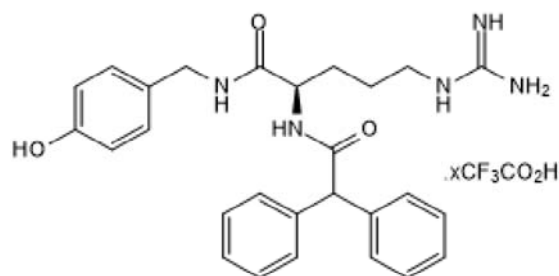
Batch Molecular Formula: C<sub>27</sub>H<sub>31</sub>N<sub>5</sub>O<sub>3</sub>.

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

Standard retail vials are prepared by lyophilisation. The product may appear as a solid, a gel or a film. 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:**

Molecular Weight: 473.57 (Free base)

**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 NPFF<sub>2</sub> 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 D.pam. *Eur.J.Pharmacol.* **317** R3. PMID: 8997632.

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