BIBP3226 TFA

Cat. No.: HY-107726

CAS No.: 1068148-47-9

Molecular Formula: $C_{29}H_{32}F_3N_5O_5$

Molecular Weight: 587.59

Target: Neuropeptide Y Receptor

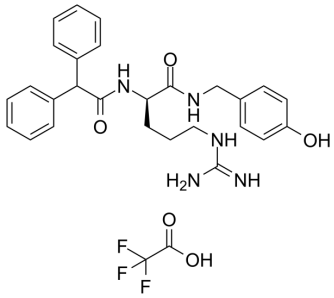
Pathway: GPCR/G Protein; Neuronal Signaling

Storage: Sealed storage, away from moisture and light

Powder -80°C 2 years

-20°C 1 year

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (170.19 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Concentration \ Solvent \ Mass	1 mg	5 mg	10 mg
1 mM	1.7019 mL	8.5093 mL	17.0187 mL
5 mM	0.3404 mL	1.7019 mL	3.4037 mL
10 mM	0.1702 mL	0.8509 mL	1.7019 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (3.54 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (3.54 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (3.54 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

BIBP3226 TFA is a potent and selective neuropeptide Y Y1 (NPY Y1) and neuropeptide FF (NPFF) receptor antagonist, with K_is of 1.1, 79, and 108 nM for rNPY Y1, hNPFF2, and rNPFF, respectively. BIBP3226 TFA displays anxiogenic-like effect[1][2].

IC_{50} & Target			
	rNPY Y_1 receptor	hNPFF2	rNPFF
	1.1 nM (Ki)	79 nM (Ki)	108 nM (Ki)

In Vivo

BIBP3226 (0.5, 5 μg; i.c.v.) induces an anxiogenic-like effect at the higher dose[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male Wistar rats 270-350 g[1]
Dosage:	0.5, 5 μg
Administration:	I.c.v
Result:	At the dose of 5μg caused an anxiogenic-like effect while the lower dose was ineffective.

REFERENCES

[1]. Mollereau C, et al. Agonist and antagonist activities on human NPFF(2) receptors of the NPY ligands GR231118 and BIBP3226. Br J Pharmacol. 2001 May;133(1):1-4.

[2]. Kask A, et al. Anxiogenic-like effect of the neuropeptide Y Y1 receptor antagonist BIBP3226: antagonism with diazepam. Eur J Pharmacol. 1996 Dec 19;317(2-3):R3-4.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA