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Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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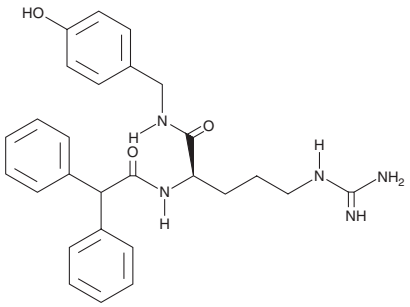
PRODUCT INFORMATION

BIBP3226

Item No. 33210

CAS Registry No.:	159013-54-4
Formal Name:	N-[(1R)-4-[(aminoiminomethyl) amino]-1-[[[(4-hydroxyphenyl)methyl] amino]carbonyl]butyl]-α-phenyl-benzeneacetamide
MF:	$C_{27}H_{31}N_5O_3$
FW:	473.6
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

BIBP3226 is supplied as a solid. A stock solution may be made by dissolving the BIBP3226 in the solvent of choice, which should be purged with an inert gas. BIBP3226 is soluble in ethanol and DMSO.

Description

BIBP3226 is a nonpeptide antagonist of neuropeptide Y (NPY) receptor Y_1 (K_i = 1.1 nM).[1] It is selective for Y_1 over Y_2, Y_4, and Y_5 receptors (K_is = >1,000 nM for all). It also binds to neuropeptide FF receptor 1 (NPFF1) and NPFF2 (K_is = 108 and 79 nM, respectively) and reverses NPFF-induced inhibition of forskolin-induced cAMP accumulation in CHO cells expressing human NPFF2 in a concentration-dependent manner.[1] BIBP3226 inhibits NPY-induced increases in perfusion pressure in isolated rat kidney but not the NPY-induced twitch response in isolated rat vas deferens (IC_{50}s = 26 and >10,000 nM, respectively).[2] BIBP3226 inhibits NPY-induced increases in blood pressure in pithed rats (ED_{50} = 0.11 mg/kg).[2] It also inhibits NPFF-induced hypothermia in mice when administered intracerebroventricularly (i.c.v.) at a dose of 5 nmol.[3]

References

1. Mollereau, C., Gouardères, C., Dumont, Y., *et al.* Agonist and antagonist activities on human $NPFF_2$ receptors of the NPY ligands GR231118 and BIBP3226. *Br. J. Pharmacol.* **133(1)**, 1-4 (2001).
2. Rudolf, K., Eberlein, W., Engel, W., *et al.* The first highly potent and selective non-peptide neuropeptide Y Y_1 receptor antagonist: BIBP3226. *Eur. J. Pharmacol.* **271(2-3)**, R11-R13 (1994).
3. Fang, Q., Guo, J., He, F., *et al.* In vivo inhibition of neuropeptide FF agonism by BIBP3226, an NPY Y1 receptor antagonist. *Peptides* **27(9)**, 2207-2213 (2006).

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