

Product Data Sheet

Product Name: PKG Inhibitor (trifluoroacetate salt)

Cat. No.: GC92078

Chemical Properties

Cas. No.

Chemical Name L-arginyl-L-lysyl-L-arginyl-L-alanyl-L-arginyl-L-lysyl-L-glutamic acid, trifluoroacetate salt

SMILES O=C([C@@H](NC([C@@H](NC([C@@H](NC([C@@H](NC([C@@H](NC([C@@H](CCCNC(N)=N)N)=O)CCCCN)=O)CCCNC(N)=N)=O)C)=O)CCCNC(N)=N)=O)CCCCN)N[C@@H](CCC(O)=O)C(O)=O.FC(F)(F)C(O)=O

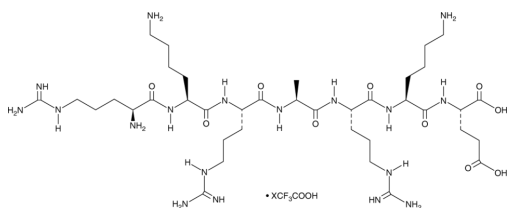
Formula $C_{38}H_{74}N_{18}O_{10} \cdot XCF_3COOH$ M.Wt 943.1

Solubility DMF: 5 mg/ml, DMSO: 15 mg/ml, PBS (pH 7.2): 10 mg/ml Storage $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

PKG inhibitor is a specific cGMP-dependent PKG inhibitor ($K_i = 86 \mu M$).¹ This synthetic peptide is a nonphosphorylatable analog of a substrate corresponding to the serine-32 phosphorylation site in histone H2B.¹ PKG inhibitor has been reported to block cGMP-dependent NMDA potentiation and nitric oxide-induced depression of GABA currents in cultured retinal amacrine cells.²

References:

Caution: Product has not been fully validated for medical applications. For research use only.

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- [1]. Glass, D.B. Differential responses of cyclic GMP-dependent and cyclic AMP-dependent protein kinases to synthetic peptide inhibitors. *Biochem. J.* 213(1)159-164(1983).
- [2]. Wexler, E.M., Stanton, P.K., and Nawy, S. Nitric oxide depresses GABA_A receptor function via coactivation of cGMP-dependent kinase and phosphodiesterase. *J. Neurosci.* 18(7)2342-2349(1998).

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