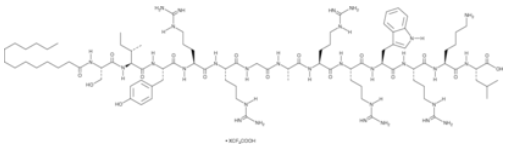
Product Data Sheet

Product Name: Myr-ZIP
Cat. No.: GC49269

Chemical Properties

Cas. No.	N/A		
SMILES	CC(C)C[C@@H](C(O)=O)NC([C@H](CCCCN)NC([C@H](CCCNC(N)=N)NC([C@@H](NC([C@H](CCCNC(N)=N)NC([C@H](CCCNC(N)=N)NC([C@H](C)NC(CNC([C@H](CCCNC(N)=N)NC([C@H](CCCNC(N)=N)NC([C@@H](NC([C@H]([C@@H](C)CC)NC([C@H](CO)NC(CCCCCCCCCCCCC)=O)=O)=O)CC1=CC=C(C=C1)O)=O)=O)=O)=O)=O)=O)=O)CC2=CNC3=CC=CC=C23)=O)=O)=O.OC(C(F)(F)F)=O		
Formula	C90H154N30O17·XCF3COOH	M.Wt	1928.4
Solubility	Water: 1 mg/ml	Storage	-20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°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

Myr-ZIP is a cell-permeable inhibitor of the constitutively active protein kinase C (PKC) isoform PKMζ (K_i = 0.076-2.11 μM).[1,2] It also inhibits PKCα when used at a concentration of 10 μM.[3] Myr-ZIP (5 μM) prevents PKC translocation to the plasma membrane induced by ionomycin in HEK293 cells expressing A-kinase anchor protein 79 (AKAP79). Myr-ZIP inhibits the conditioned place preference response to morphine in rats when administered intracranially into the nucleus accumbens core at doses of 10 and 30 nmol/0.5 μl per side.[4]

1.Yao, Y., Shao, C., Jothianandan, D., et al.Matching biochemical and functional efficacies confirm ZIP as a potent competitive inhibitor of PKMζ in neuronsNeuropharmacology64(1)37-44(2013) 2.Lee, A.M., Kanter, B.R., Wang, D., et al.Prkcz null mice show normal learning and

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memoryNature493(7432)419-419(2013) 3.Bogard, A.S., and Tavalin, S.J.Protein kinase C (PKC)ζ pseudosubstrate inhibitor peptide promiscuously binds PKC family isoforms and disrupts conventional PKC targeting and translocationMol. Pharmacol.88(4)728-735(2015) 4.Li, Y.-q., Xue, Y.-x., He, Y.-y., et al.Inhibition of PKMzeta in nucleus accumbens core abolishes long-term drug reward memoryJ. Neurosci.31(14)5436-5446(2011)

Caution: Product has not been fully validated for medical applications. For research use only.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA