Product Data Sheet

Product Name: PD 173212
Cat. No.: GC11678

Chemical Properties

Cas. No.	217171-01-2		
Chemical Name	(S)-N-((S)-3-(4-(benzyloxy)phenyl)-1-(tert-butylamino)-1-oxopropan-2-yl)-2-((4-(tert-butyl)benzyl)(methyl)amino)-4-methylpentanamide		
SMILES	O=C([C@H](CC(C)C)N(C)CC(C=C1)=CC=C1C(C)(C)C)N[C@H](C(NC(C)(C)C)=O)CC(C=C2)=CC=C2OCC3=CC=CC=C3		
Formula	$C_{38}H_{53}N_3O_3$	M.Wt	599.85
Solubility	DMSO: 100 mM,Ethanol: 100 mM	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	PD 173212		

Background

PD173212 is a selective N-type voltage sensitive calcium channel (VSCC) blocker, with an IC50 of 36 nM in IMR-32 assays.

PD173212 (PD 173212, 300 nM) potently blocks recombinant B-class (N-type) calcium channel currents 78±7.8%, with an IC50 of 74 nM, by whole-cell voltage-clamp techniques. PD 173212 possesses selectivity for non L-type Ca2+ channels versus neuronal Na+, K+, and L-type Ca2+ channels[1].

PD173212 (30 mg/kg, i.v.) shows moderate efficacy in preventing tonic seizures in the audiogenic seizure model[1].

References:
[1]. Hu LY, et al. Structure-activity relationship of N-methyl-N-aralkyl-peptidylamines as novel N-type calcium channel blockers. Bioorg Med Chem Lett. 1999 Aug 2;9(15):2151-

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