Product Data Sheet

Product Name: L162389
Cat. No.: GC30443

Chemical Properties

Cas. No.	169281-53-2		
SMILES	O=C(OCCCC)NS(=O)(C1=CC=C(CCC)C=C1C2=CC=C(CN3C(CC)=NC4=C(C)C=C(C)N=C43)C=C2)=O		
Formula	$C_{31}H_{38}N_4O_4S$	M.Wt	562.72
Solubility	Soluble in DMSO	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	L162389		

Protocol

Kinase experiment:

Monoiodinated 125I-[Sar1,Leu8]angiotensin II is prepared by the Iodo-Gen method. One day after transfection and 24 hr before the binding experiments, the transfected cells are transferred to 6-, 12-, or 24-well culture plates, with 0.15-9 × 105 cells/well, with a goal of total binding of 5-10% of the radiolabeled peptide. The cells are washed twice with buffer (25 mM Tris, 5 mM MgCl2, 140 mM NaCl, pH 7.4) before and after the binding. The binding is carried out for 24 hr at 4°C with 50 pm 125I-[Sar1,Leu8]angiotensin II and variable amounts of unlabeled nonpeptide or peptide ligands in 0.5-1 mL of a 25 mM Tris buffer containing 5 mm MgCl2, pH 7.4. The binding data are analyzed by computerized nonlinear regression analysis using InPlot 4.0.

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References:

[1]. Perlman S, et al. Dual agonistic and antagonistic property of nonpeptide angiotensin AT1 ligands: susceptibility to receptor mutations. Mol Pharmacol. 1997 Feb;51(2):301-11.

Background

L162389 is a potent antagonist of angiotensin AT1 receptor with Ki of 28 nM.

L-162,389 stimulates phosphatidylinositol turnover, albeit only to a small percentage of the angiotensin response. L-162,389 acts as angiotensin antagonist with IC50 value of 105 nM[1].

[1]. Perlman S, et al. Dual agonistic and antagonistic property of nonpeptide angiotensin AT1 ligands: susceptibility to receptor mutations. Mol Pharmacol. 1997 Feb;51(2):301-11.

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