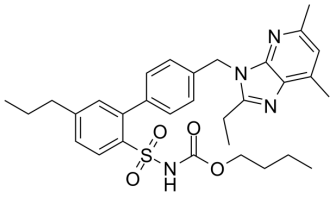
L162389

Cat. No.:	HY-101618
CAS No.:	169281-53-2
Molecular Formula:	$C_{31}H_{38}N_4O_4S$
Molecular Weight:	562.72
Target:	Angiotensin Receptor
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	L162389 is a potent antagonist of angiotensin AT1 receptor with K_i of 28 nM.
IC_{50} & Target	Ki: 28 nM (angiotensin AT1 receptor)[1]
In Vitro	L-162,389 stimulates phosphatidylinositol turnover, albeit only to a small percentage of the angiotensin response. L-162,389 acts as angiotensin antagonist with IC_{50} value of 105 nM[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Kinase Assay [1]	Monoiodinated ^{125}I-[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 × 10^5 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 $MgCl_2$, 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 ^{125}I-[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 $MgCl_2$, pH 7.4. The binding data are analyzed by computerized nonlinear regression analysis using InPlot 4.0. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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.

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

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