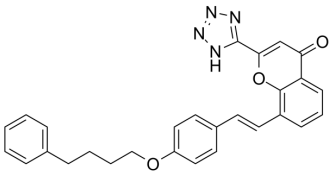
LM-1484

Cat. No.:	HY-101686
CAS No.:	197506-02-8
Molecular Formula:	$C_{28}H_{24}N_4O_3$
Molecular Weight:	464.52
Target:	Leukotriene Receptor
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	LM-1484 is an antagonist of CysLT1 receptor and displays a higher affinity for ^{3}H-LTC4 sites.	
IC_{50} & Target	$CysLT_1$	LTC_4
In Vitro	LM-1484 (10 μM) induces the dissociation of ^{3}H-LTD4, and is able to displace ^{3}H-LTC4 from its binding sites[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

PROTOCOL

Kinase Assay [1]

Equilibrium binding studies are performed at 25°C for 60 min with 0.03-0.5 nM ^{3}H-LTD4 or 40 min with 0.03-0.5 nM ^{3}H-LTC4 and unlabeled homologous or heterologous ligands at the indicated concentrations. A multiligand protocol is followed. Ten micromolar S-decyl-GSH is present only in the case of ^{3}H-LTC4 equilibrium experiments. Time-courses are performed at 25°C with 0.5 nM ^{3}H-LTC4 or ^{3}H-LTD4. Dissociation is induced by adding 1 mM unlabeled leukotriene (homologous dissociation) or 10 μM unlabeled antagonist (heterologous dissociation). In both equilibrium and kinetic studies HLP membranes (0.25 mg per sample), 10 mM HEPES-KOH pH 7.4, 1 mM $CaCl_2$ and 1 mM $MgCl_2$ are added to the incubation mixture to achieve a final volume of 250 mL. All the experiments have been performed under control metabolic conditions. Unbound ligand is separated by rapid vacuum filtration onto glass-fiber GF/C filters soaked in 2.5% polyvinylalchool and the filters are washed twice with 4 mL of HEPES buffer at 4°C. Radioactivity is measured in a liquid scintillation counter.

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REFERENCES

[1]. Ravasi S, et al. Pharmacological differences among CysLT(1) receptor antagonists with respect to LTC(4) and LTD(4) in human lung parenchyma. Biochem Pharmacol. 2002 Apr 15;63(8):1537-46.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA