Product Data Sheet

Product Name: LM-1484
Cat. No.: GC30453

Chemical Properties

Cas. No.	197506-02-8		
SMILES	O=C1C=C(C2=NN=NN2)OC3=C(/C=C/C4=CC=C(OCCCCC5=CC=CC=C5)C=C4)C=CC=C13		
Formula	$C_{28}H_{24}N_4O_3$	M.Wt	464.52
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	LM-1484		

Protocol

Kinase experiment:

Equilibrium binding studies are performed at 25°C for 60 min with 0.03-0.5 nM 3H-LTD4 or 40 min with 0.03-0.5 nM 3H-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 3H-LTC4 equilibrium experiments. Time-courses are performed at 25°C with 0.5 nM 3H-LTC4 or 3H-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 CaCl2 and 1 mM MgCl2 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.

Background

LM-1484 is an antagonist of CysLT1 receptor and displays a higher affinity for 3H-LTC4 sites.

LM-1484 (10 μM) induces the dissociation of 3H-LTD4, and is able to displace 3H-LTC4 from its binding sites[1].

[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.

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