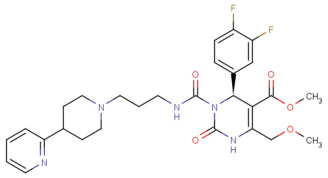
Data Sheet (Cat.No.T15688)

TargetMol
A DRUG SCREENING EXPERT

L-771688

Chemical Properties



CAS No.:	200050-59-5
Formula:	C28H33F2N5O5
Molecular Weight:	557.59
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	L-771688 is a highly selective antagonist of α1A-Adrenoceptor (Ki: 0.43±0.02 nM).
Targets(IC_{50})	α1A-Adrenoceptor: (ki)0.43±0.02 nM
In vitro	The relative amount of [3H]L-771688 (0.5 nM) binding in various rat tissue membranes is highest in submaxillary gland (9.5 pmol/g tissue), followed by brain (5.8 pmol/g tissue), vas deferens (4.3 pmol/g tissue), kidney (3.4 pmol/g tissue), heart (1.5 pmol/g tissue), urethra (1.1 pmol/g tissue) and prostate (0.88 pmol/g tissue). In contrast, low specific [3H]L-771688 binding is observed in rat urinary bladder (0.55 pmol/g tissue), liver (0.44 pmol/g tissue), aorta (0.11 pmol/g tissue) and spleen (0.11 pmol/g tissue). Specific [3H]L-771688 binding to cloned human α1A-Adrenoceptors is inhibited with high potency by subtype selective compounds, GG818 (Ki=0.026±0.002 nM) and L-771688 (Ki=0.052±0.008 nM) and subtype non-selective α1-adrenoceptor antagonists, prazosin (Ki=0.088±0.0.032 nM) and terazosin (Ki=1.8±0.65 nM).

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.793 mL	8.967 mL	17.934 mL
5 mM	0.359 mL	1.793 mL	3.587 mL
10 mM	0.179 mL	0.897 mL	1.793 mL
50 mM	0.036 mL	0.179 mL	0.359 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Chang RS, et al. In vitro studies on L-771,688 (SNAP 6383), a new potent and selective alpha1A-adrenoceptor antagonist. Eur J Pharmacol. 2000 Dec 15;409(3):301-12.

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