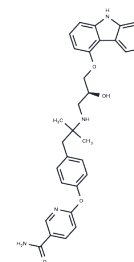


LY377604

Chemical Properties

CAS No. : 204592-94-9
Formula: C₃₁H₃₂N₄O₄
Molecular Weight: 524.61
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	LY377604 is a human β 3-adrenergic receptor agonist (EC ₅₀ : 2.4 nM) and β 1/2-adrenergic receptor antagonist for the study of obesity.
Targets(IC50)	Adrenergic Receptor
In vitro	LY377604 is a β 1- and β 2-adrenergic receptor antagonist as well as a β 3-adrenergic receptor agonist, causing a maximal increase in cyclic adenosine monophosphate (cAMP) levels with an EC ₅₀ of 2.4 nM[1].
In vivo	LY377604 administered orally at 10mg/kg increases diet-induced obesity in male Long-Evans rats by enhancing calorie expenditure[1].

Solubility Information

Solubility	DMSO: 80 mg/mL (152.49 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (6.29 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9062 mL	9.5309 mL	19.0618 mL
5 mM	0.3812 mL	1.9062 mL	3.8124 mL
10 mM	0.1906 mL	0.9531 mL	1.9062 mL
50 mM	0.0381 mL	0.1906 mL	0.3812 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Jesudason CD, et al. Combination of a Beta adrenoceptor modulator and a norepinephrine-serotonin uptake inhibitor for the treatment of obesity. ACS Med Chem Lett. 2011 May 23;2(8):583-6.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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