Product Name: CL 316243 disodium salt
Revision Date: 01/10/2020

Product Data Sheet

CL 316243 disodium salt

Cat. No.: B6766

CAS No.: 151126-84-0

Formula: C20H18CINNa2O7

M.Wt: 465.8

Synonyms:

Target:GPCR/G proteinPathway:Adrenergic ReceptorStorage:Desiccate at -20°C

HN Na⁺ Na⁺

Solvent & Solubility

<46.58mg/ml in H2O

In Vitro

Preparing Stock Solutions	Solvent Concentration	1mg	5mg	10mg
	1 mM	2.1468 mL	10.7342 mL	21.4684 mL
	5 mM	0.4294 mL	2.1468 mL	4.2937 mL
	10 mM	0.2147 mL	1.0734 mL	2.1468 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

murine-selective β3 adrenoceptor agonist				
Cell Viability Assay				
reparation method:	The solubility of this compound in sterile water is 100 mM. General tips for			
	obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes			
	and/or shake it in the ultrasonic bath for a while. Stock solution can be stored			
	below - 20 °C for several months.			
eacting conditions:	0.01 ~ 300 μM			
pplications:	CL 316243 concentration-dependently decreased the basal tension of the LES			
	smooth muscle, with an ECmax value of 1 x 10-4 M. At corresponding ECmax			
r	ell Viability Assay reparation method: eacting conditions:			

		values, the smooth muscle relaxation induced by CL 316243 was significantly	
		longer than that triggered by isoproterenol. The smooth muscle relaxation in	
		the isoproterenol group began to recover within 5 mins but it cost 1 hr in the	
		case of CL 316243.	
	Animal experiment		
In Vivo	Animal models:	Nonobese and nondiabetic Sprague-Dawley rats	
	Dosage form:	1 mg/kg/day; s.c.; for 10 ~ 12 days	
	Applications:	After 7 days of treatment, CL 316243 significantly increased food consumption,	
		resting metabolic rates, as well as body core temperatures in rats. Besides, CL	
		316243 decreased the respiratory quotient by 14%. On day 11, an oral glucose	
		load (2 g/kg) did not alter plasma glucose and insulin excursions. In addition,	
		CL 316243 reduced abdominal and epididymal white fat pad weights, but	
		doubled interscapular brown adipose tissue weight at the same time.	
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may	
		slightly differ with the theoretical value. This is caused by an experimental	
		system error and it is normal.	

Product Citations

See more customer validations on www.apexbt.com.

References

- [1]. Sarma DN, Banwait K, Basak A, DiMarino AJ, Rattan S. Inhibitory effect of beta3-adrenoceptor agonist in lower esophageal sphincter smooth muscle: in vitro studies. J Pharmacol Exp Ther. 2003 Jan;304(1):48-55.
- [2]. de Souza CJ, Hirshman MF, Horton ES. CL-316,243, a beta3-specific adrenoceptor agonist, enhances insulin-stimulated glucose disposal in nonobese rats. Diabetes. 1997 Aug;46(8):1257-63.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

APExBIO Technology

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