Product Data Sheet

Product Name: U-92016A
Cat. No.: GC18962

Chemical Properties

Cas. No.	149654-41-1		
Chemical Name	(8R)-8-(dipropylamino)-6,7,8,9-tetrahydro-3H-benz[e]indole-2-carbonitrile, monohydrochloride		
SMILES	CCCN(CCC)[C@@H](C1)CCC2=C1C(C=C(C#N)N3)=C3C=C2.Cl		
Formula	$C_{19}H_{25}N_3$.HCl	M.Wt	331.9
Solubility	DMF: 5 mg/ml,DMSO: 20 mg/ml,Ethanol: 1 mg/ml,PBS (pH 7.2): 0.1 mg/ml	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	U-92016A		

Background

U-92016A is an agonist of the serotonin (5-HT) receptor subtype 5-HT1A (Ki = 0.4 nM). It is selective for 5-HT1A over 5-HT1D, 5-HT2, dopamine D1 and D2, and α1- and α2-adrenergic receptors (Kis = 7.7, >1,000, >1,000, 36, >1,000, and >1,000 nM, respectively). U-92016A inhibits forskolin-stimulated cAMP synthesis in CHO cells transfected with human 5-HT1A. In vivo, U-92016A induces hypothermia in mice (ED50 = 0.041 mg/kg). It induces 5-HT syndrome, as measured by increased flat body posture and reciprocal forepaw treading, as well as decreases accumulation of 5-HT and dopamine in rats when administered at a dose of 5 mg/kg. U-92016A also decreases arterial blood pressure and heart rate in a dose-dependent manner in spontaneously hypertensive rats and reverses isolation-induced aggression in mice.

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