4,4-Diphenylbutylamine hydrochloride

Cat. No.: HY-141422A

CAS No.: 22101-90-2

Molecular Formula: $C_{16}H_{20}ClN$

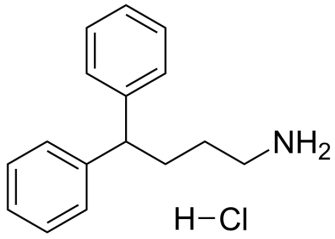
Molecular Weight: 261.79

Target: 5-HT Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: 4°C, sealed storage, away from moisture

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 66.67 mg/mL (254.67 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.8199 mL	19.0993 mL	38.1986 mL
	5 mM	0.7640 mL	3.8199 mL	7.6397 mL
	10 mM	0.3820 mL	1.9099 mL	3.8199 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (9.55 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (9.55 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (9.55 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

4,4-Diphenylbutylamine shows affinity for the 5-HT_{2A} and H_1 receptors with K_is of 2589 and 1670 nM, respectively[1].

REFERENCES

[1]. Shah JR, et al. Synthesis, structure-affinity relationships, and modeling of AMDA analogs at 5-HT2A and H1 receptors: structural factors contributing to selectivity. Bioorg Med Chem. 2009;17(18):6496-6504.

Caution: Product has not been fully validated for medical applications. For research use only.

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