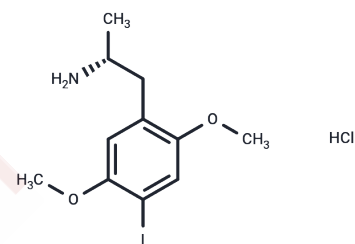


(R)-DOI hydrochloride

Chemical Properties

CAS No. :	82864-02-6
Formula:	C ₁₁ H ₁₇ ClINO ₂
Molecular Weight:	357.62
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	(R)-DOI hydrochloride is a potent 5-HT _{2A} and 5-HT _{2C} receptor agonist, orally active and capable of producing hallucinogenic effects.
Targets(IC ₅₀)	5-HT Receptor
In vivo	In vivo, intracerebroventricular infusion of (R)-DOI hydrochloride in turkeys significantly increased plasma prolactin (PRL) levels (by 40% at 5min post-infusion, peaking at 20min). (R)-DOI hydrochloride also activated hypothalamic dopaminergic (TH-positive) and vasoactive intestinal peptide (VIP-positive) neurons, as indicated by c-fos mRNA expression co-localization (POM: 9.2%, PMM: 44.6%, ML: 28.6%; VIP neurons: 13.2%), suggesting its role in PRL regulation via neuronal activation[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7963 mL	13.9813 mL	27.9626 mL
5 mM	0.5593 mL	2.7963 mL	5.5925 mL
10 mM	0.2796 mL	1.3981 mL	2.7963 mL
50 mM	0.0559 mL	0.2796 mL	0.5593 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

Bakken, T., Kang, S. W., Kosonsiriluk, S., Kuwayama, T., Chaiseha, Y., & El Halawani, M. E. (2013). Differential roles of hypothalamic serotonin receptor subtypes in the regulation of prolactin secretion in the turkey hen. *Acta Histochemica*, 116(1), 131-137.

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