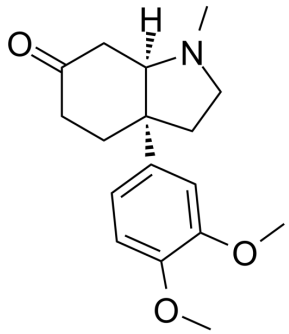
Mesembrine

Cat. No.:	HY-121162
CAS No.:	468-53-1
Molecular Formula:	$C_{17}H_{23}NO_3$
Molecular Weight:	289.37
Target:	5-HT Receptor; Phosphodiesterase (PDE)
Pathway:	GPCR/G Protein; Neuronal Signaling; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Mesembrine ((+)-Mesembrine) a main alkaloid that features an aryloctahydroindole skeleton. Mesembrine is a 5-HT transporter inhibitor with a K_i of 1.4 nM. Mesembrine also inhibits phosphodiesterase 4B (PDE4B) with an IC_{50} of 7.8 μM[1][2].	
IC_{50} & Target	PDE4B 7.8 μM (IC_{50})	serotonin 1.4 nM (Ki)
In Vitro	Mesembrine can bind to cloned human cannabinoid CB1 receptors in vitro[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. John L Krstenansky. Mesembrine alkaloids: Review of their occurrence, chemistry, and pharmacology. J Ethnopharmacol. 2017 Jan 4;195:10-19.

[2]. Golo M J Meyer, et al. GC-MS, LC-MS(n), LC-high resolution-MS(n), and NMR studies on the metabolism and toxicological detection of mesembrine and mesembrenone, the main alkaloids of the legal high "Kanna" isolated from Sceletium tortuosum. Anal Bioanal Chem. 2015 Jan;407(3):761-78.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA