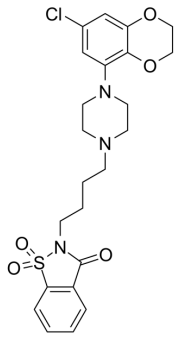
DU125530

Cat. No.:	HY-19283
CAS No.:	161611-99-0
Molecular Formula:	$C_{23}H_{26}ClN_3O_5S$
Molecular Weight:	491.99
Target:	5-HT Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

DU125530 is a potent and selective5-HT1A receptor antagonist with K_i values of 0.7, 890, 1200, 240, 750, 1100 nM for 5-HT1A, 5-HT1B, 5-HT1D, 5-HT2A, 5-HT2C, 5-HT3, respectively. DU125530 shows antidepressant effects[1][2].

IC_{50} & Target

5-HT_{1A} Receptor 0.7 nM (Ki)	5-HT_{1B} Receptor 890 nM (Ki)	5-HT_{1C} Receptor 1200 nM (Ki)	5-HT_{2A} Receptor 240 nM (Ki)
5-HT_{2C} Receptor 750 nM (Ki)	5-HT_3 Receptor 1100 nM (Ki)		

In Vivo

DU125530 (3 mg/kg; s.c.) reduces the reduction of 5-HT release induced by 8-OH-DPAT (HY-112061) in wild-type mice[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	wild-type mice[2]
Dosage:	3 mg/kg
Administration:	S.c.
Result:	Prevented the reduction of 5-HT release induced by 0.5 mg·kg−1 s.c. 8-OH-DPAT in WT mice, alone had no effect on the extracellular 5-HT concentration in mPFC of wild-type mice (WT) nor in 5-HT1A receptor knock-out mice (KO).

REFERENCES

[1]. Mos J, et al. The putative 5-HT1A receptor antagonist DU125530 blocks the discriminative stimulus of the 5-HT1A receptor agonist flesinoxan in pigeons. Eur J Pharmacol. 1997 May 1;325(2-3):145-53.

[2]. Scorza MC, et al. Preclinical and clinical characterization of the selective 5-HT(1A) receptor antagonist DU-125530 for antidepressant treatment. Br J Pharmacol. 2012 Nov;167(5):1021-34.

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

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