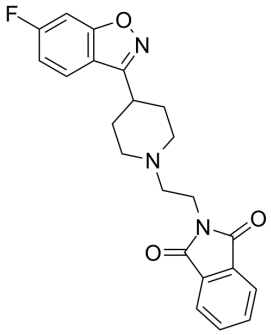
5-HT6/7 antagonist 1



Cat. No.:	HY-101622
CAS No.:	131999-28-5
Molecular Formula:	$C_{22}H_{20}FN_3O_3$
Molecular Weight:	393.41
Target:	5-HT Receptor; Dopamine Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	5-HT6/7 antagonist 1 is a multifunctional ligand that antagonizes 5-HT6/7/2A and D2 receptors, without interacting with M1 receptors and hERG channels.			
IC_{50} & Target	5-HT_6 Receptor	5-HT_7 Receptor	5-HT_{2A} Receptor	D_2 Receptor
In Vitro	Targeting 5-HT6 and/ or 5-HT7 receptors with antagonist drugs could constitute a promising strategy for treating symptoms of BPSD while avoiding some of the side effects of current antipsychotic drugs. Nevertheless, due to the complex pathology of dementia and accompanying behavioral and psychological symptoms, it seems unlikely that focusing on a single therapeutic target would be sufficient to provide adequate clinical benefit, and it is likely that successful development of novel anti-BPSD agents should involve a “designed” multifactorial approach[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

REFERENCES

[1]. Kołaczkowski M, et al. Novel arylsulfonamide derivatives with 5-HT_6/5-HT_7 receptor antagonism targeting behavioral and psychological symptoms of dementia. J Med Chem. 2014 Jun 12;57(11):4543-57.

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