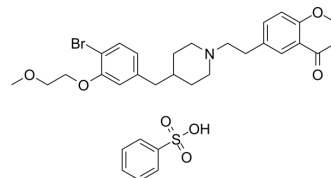


DSP-1053 benzenesulfonate

Cat. No.:	HY-111419A
CAS No.:	1176326-78-5
Molecular Formula:	C ₃₂ H ₃₈ BrNO ₇ S
Molecular Weight:	660.62
Target:	Serotonin Transporter; 5-HT Receptor
Pathway:	Neuronal Signaling; GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	DSP-1053, a benzylpiperidine derivative, is a potent serotonin transporter (SERT) inhibitor with a K _i of 1.02 nM. DSP-1053 shows partial 5-HT _{1A} receptor agonistic activity with a K _i of 5.05 nM. DSP-1053 has antidepressant activity ^[1] .
IC ₅₀ & Target	5-HT _{1A} Receptor 5.05 nM (K _i)

REFERENCES

[1]. Yoshinaga H, et al. Discovery of DSP-1053, a novel benzylpiperidine derivative with potent serotonin transporter inhibitory activity and partial 5-HT_{1A} receptor agonistic activity. *Bioorg Med Chem*. 2018 May 1;26(8):1614-1627.

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

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