

Product Name	: DSP-1053
Synonyms	: DSP1053
Cat No.	: M10599
CAS Number	: 1176326-78-5
Molecular Formula	: C ₃₂ H ₃₈ BrNO ₇ S
Formula Weight	: 660.62
Chemical Name	: 6-(2-{4-[4-Bromo-3-(2-methoxyethoxy)benzyl]piperidin-1-yl}ethyl)-2,3-dihydro-4H-chromen-4-one benzenesulfonate
Description	: DSP-1053 is a novel potent serotonin reuptake (SERT) inhibitor with 5-HT _{1A} partial agonistic activity that binds to human serotonin transporter and 5-HT _{1A} receptor with K _i of 1.02 and 5.05 nM, respectively; inhibits serotonin transporter with IC ₅₀ of 2.74 nM and shows an intrinsic activity for 5-HT _{1A} receptors of 70.0%; dose-dependently increases extracellular 5-HT levels in rat microdialysis at 3-10 mg/kg, demonstrates antidepressant-like effect in vivo. Depression Phase 1 Discontinued
Pathway	: Endocrinology/Hormones
Target	: 5-HT Receptor
Receptor	: 5-HT Receptor
Solubility	: —
SMILES	: —
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Yoshinaga H, et al. Bioorg Med Chem. 2018 May 1;26(8):1614-1627. | 2. Kato T, et al. Pharmacol Res Perspect. 2015 Jun;3(3):e00142.