

Product Name : DSP-6952 hydrobromide

Synonyms : DSP6952; Minesapride

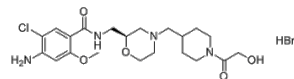
Cat No. : M10627

CAS Number : 1184661-33-3

Molecular Formula : C₂₁H₃₂BrClN₄O₅

Formula Weight : 535.86

Chemical Name : (S)-4-amino-5-chloro-N-((4-((1-(2-hydroxyacetyl)piperidin-4-yl)methyl)morpholin-2-yl)methyl)-2-methoxybenzamide hydrobromide



Description : DSP-6952 is a novel potent, selective, orally active 5-HT₄ receptor partial agonist with K_i of 50-100 nM for human 5-HT_{4a/4b/4c}; enhances gastric motility and causes colonic giant migrating contractions (GMCs) associated with defecation in conscious dogs, having ED₅₀ value for inducing GMCs of 1.56mg/kg; rapidly increases fecal wet weight without increasing fluid content in mice (1-10mg/kg, p.o.).

Pathway : Endocrinology/Hormones

Target : 5-HT Receptor

Receptor : 5-HT Receptor

Solubility : —

SMILES : O=C(NC1C=CC(=C(C=C1)C(=O)N2CCN(C(CO)O)CC2)CCO1)C3=CC(Cl)=C(N)C=C3OC.[H]Br.[H]O.[H].[H]O.[H]

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Mine Y, et al. Eur J Pharmacol. 2018 Feb 9;826:123-132. 2. Tsubouchi T, et al. Eur J Pharmacol. 2018 Mar 1;826:96-105.