

Product Name : LIT-001

Synonyms : —

Cat No. : M22581

CAS Number : 2245072-21-1

Molecular Formula : C30H34F3N7O4S

Formula Weight : 645.7

Chemical Name : ----

Description

LIT-001 improves social interaction in a mouse model of autism. It is the first nonpeptide oxytocin receptor agonist with EC50 of 55 nM and Ki of 226 nM. In the in vitro signal transduction experiment, LITL-001 is an unbiased OT-R agonist, acting on

: the two main signal transduction pathways of this receptor, with slight antagonistic effect on V1a and agonist effect on V1b

receptor, only observed at high concentration.LIT-001 (10-20 mg/kg; i.p.) alleviates core symptoms in the context of autism

spectrum disorders (ASD).

Pathway : Others

Target : Other Targets

Receptor : oxytocin receptor

Solubility : DMSO:247 mg/mL (382.53mM; Need ultrasonic)

SMILES : OC(=0)C(F)(F)F.CN(C)C(=S)[C@@H]1CCCN1C(=0)NCc1ccc(cc1C)C(=0)N1Cc2cnn(C)c2Nc2cccc12

Storage : (-20℃)

Stability : ≥ 2 years

Reference :

1.Frantz MC, et al. LIT-001, the First Nonpeptide Oxytocin Receptor Agonist that Improves Social Interaction in a Mouse Model of Autism. J Med Chem. 2018 Oct 11;61(19):8670-8692.