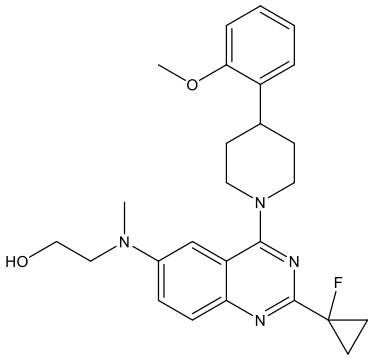
Catalog # 10-4449
SBI-553

CAS# 1849603-72-0

2-[[2-(1-Fluorocyclopropyl)-4-[4-(2-methoxyphenyl)piperidin-1-yl)quinazolin-6-yl]methylamino]ethanol

Lot # FBS3076



SBI-553 is a potent, brain penetrant, and orally bioavailable allosteric modulator of neurotensin receptor 1 (NTSR1; EC_{50} = 340 nM)).[1] It acts as a ß-Arrestin-biased agonist and selectively antagonizes G protein signaling conferring profound ß-Arrestin bias towards the endogenous ligand.[2,3] SBI-553 displayed efficacy in mouse models of psychostimulant abuse without the characteristic undesirable side effects of unbiased NTSR1 agonism. This functionally selective modulation of NTSR1 may be a new therapeutic approach to treating psychostimulant abuse and other chemical and behavioral addictions.

1) Pinkerton *et al*. (2019), *Discovery of ß-Arrestin Biased, Orally Bioavailable and CNS Penetrant Neurotensin Receptor 1 (NTR1) Allosteric Modulators*; J. Med. Chem. **62** 8357
2) Slosky *et al*. (2020), *ß-Arrestin-Biased Allosteric Modulator of NTSR1 Selectively Attenuates Addictive Behaviors*; Cell **181** 1364
3) Duan *et al*. (2023), *GPCR activation and GRK2 assembly by a biased intracellular agonist*; Nature **620** 676

PHYSICAL DATA

Molecular Weight:	450.56
Molecular Formula:	$C_{26}H_{31}FN_4O_2$
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (12 mg/ml)
Physical Description:	Pale yellow solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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