# PRODUCT INFORMATION

## SBI-553

*Item No. 36782*

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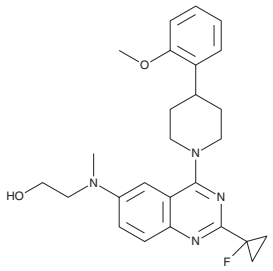
| **CAS Registry No.:** | 1849603-72-0 |
| **Formal Name:** | 2-[[2-(1-fluorocyclopropyl)-4-[4-(2-methoxyphenyl)-1-piperidinyl]-6-quinazolinyl]methylamino]-ethanol |
| **MF:** | $C_{26}H_{31}FN_4O_2$ |
| **FW:** | 450.6 |
| **Purity:** | ≥98% |
| **Supplied as:** | A solid |
| **Storage:** | -20°C |
| **Stability:** | ≥4 years |



*Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.*

### Laboratory Procedures

SBI-553 is supplied as a solid. A stock solution may be made by dissolving the SBI-553 in the solvent of choice, which should be purged with an inert gas. SBI-553 is soluble in the organic solvent dimethyl formamide at a concentration of approximately 3 mg/ml. SBI-553 is slightly soluble in ethanol and DMSO.

### Description

SBI-553 is a β-arrestin-biased positive allosteric modulator (PAM) of neurotensin receptor 1 (NTSR1).[1] It binds to NSTR1 and increases neurotensin-1 affinity for NSTR1 in HEK293 cells expressing the human receptor when used at concentrations ranging from 0.01 to 10 µM. SBI-553 (0.03-30 µM) induces β-arrestin recruitment and NTSR1 internalization without stimulating Gq protein activation, 1,4,5-triphosphate ($IP_3$) generation, or calcium mobilization in cell-based assays. *In vivo*, SBI-553 (12 mg/kg, i.p.) attenuates cocaine- or methamphetamine-induced hyperlocomotion in wild-type but not β-arrestin-2 knockout mice. It also reduces cocaine self-administration in mice.

### Reference


1. Slosky, L.M., Bai, Y., Toth, K., *et al.* β-Arrestin-biased allosteric modulator of NTSR1 selectively attenuates addictive behaviors. *Cell* **181(6)**, 1364-1379.e14 (2018).





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