

ML314

Catalog No: tcsc2215



Available Sizes

Size: 5mg

Size: 10mg

Size: 25mg

Size: 50mg



Specifications

CAS No:

1448895-09-7

Formula:

$C_{24}H_{28}N_4O_3$

Pathway:

GPCR/G Protein

Target:

Neurotensin Receptor

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 47 mg/mL (111.77 mM)

Observed Molecular Weight:

420.5

Product Description

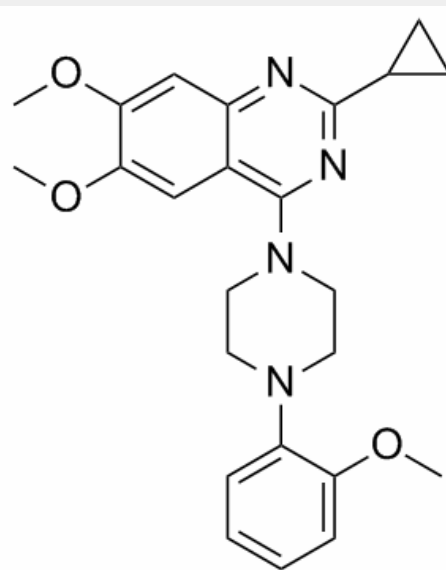
ML314 is a potent molecule agonist of NTR1 (EC50 = 1.9 μ M); showed good selectivity against NTR2 and GPR35, but did not

stimulate Ca²⁺ mobilization.

IC₅₀ value: 1.9 μ M (EC₅₀) [1]

Target: NTR1 agonist

Medicinal chemistry optimization of MLS-0233108 led to ML314, the most potent molecule in this second series that exhibited full agonist behavior (100 %) on NTR1 (EC₅₀ = 1.9 μ M). ML314 showed good selectivity against NTR2 and GPR35, but did not stimulate Ca²⁺ mobilization. ML314 is potentially a biased agonist operating via the β -arrestin pathway rather than the traditional Gq coupled pathway. Signaling mediated by β -arrestin has distinct biochemical and functional consequences that may lead to physiological advantages as described below. This probe report describes the discovery and properties of ML301 and summarizes the HTS and follow-up campaign, which identified ML314.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!