Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

ML221

Catalog No: tcsc0026651

Available Sizes

Size: 5mg

Size: 10mg

Size: 25mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
877636-42-5

Formula:
$C_{17}H_{11}N_3O_6S$

Pathway:
Others

Target:
Others

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 31 mg/mL (80.45 mM)

Observed Molecular Weight:
385.35

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Product Description

ML221 is a potent **apelin (APJ)** functional antagonist, inhibiting apelin-13-mediated activation of APJ, with **IC_{50}**s of 0.70 μM in the cAMP assay, and 1.75 μM in the β-arrestin assay, and **EC_{80}** of 10 nM in both assays.

IC50 & Target: IC50: 1.75 μM (APJ, cell-based)[1]

In Vitro: ML221 is a potent apelin/APJ functional antagonist, inhibiting apelin-13-mediated activation of APJ, with IC_{50}s of 0.70 μM in the cAMP assay, and 1.75 μM in the β-arrestin assay, and EC_{80} of 10 nM in both assays. ML221 is >37-fold selective over the closely related angiotensin II type 1 (AT1) receptor (IC_{50}, >79 μM) in cells. ML221 displays limited cross reactivity against a range of GPCRs except the κ-opioid and benzodiazepinone receptors ([1].