# UNC4203

**Cat. No.:** HY-124502

**CAS No.:** 1818234-19-3

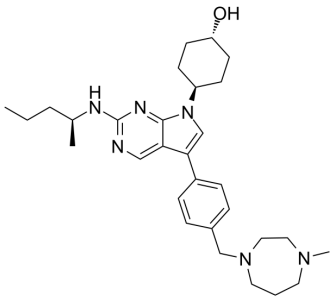
**Molecular Formula:** $C_{30}H_{44}N_6O$

**Molecular Weight:** 504.71

**Target:** TAM Receptor; FLT3

**Pathway:** Protein Tyrosine Kinase/RTK

**Storage:** Please store the product under the recommended conditions in the Certificate of Analysis.



## SOLVENT & SOLUBILITY

**In Vitro**

DMSO : 100 mg/mL (198.13 mM; Need ultrasonic)

| Preparing Stock Solutions | Solvent / Mass / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|---|
| | 1 mM | 1.9813 mL | 9.9067 mL | 19.8134 mL |
| | 5 mM | 0.3963 mL | 1.9813 mL | 3.9627 mL |
| | 10 mM | 0.1981 mL | 0.9907 mL | 1.9813 mL |

Please refer to the solubility information to select the appropriate solvent.

**In Vivo**

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (4.95 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (4.95 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (4.95 mM); Clear solution

## BIOLOGICAL ACTIVITY

**Description**

UNC4203 is a potent, orally available and highly selective MERTK inhibitor, with $IC_{50}$s of 1.2 nM, 140 nM, 42 nM and 90 nM for MERTK, AXL, TYRO3 and FLT3, respectively[1].

**In Vivo**

Mice are treated with UNC4203 (compound 24) at a dose of 10 mg/kg administered via oral (po) or iv routes. Under the condition, UNC4203 (compound 24) has 58% oral bioavailability with a 7.8 h half-life, 1.7 L/kg volume of distribution, and 36 mL/min/kg clearance[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

[1]. Hongchao Zheng, et al. UNC5293, a potent, orally available and highly MERTK-selective inhibitor. Eur J Med Chem. 2021 Aug 5;220:113534.



Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA