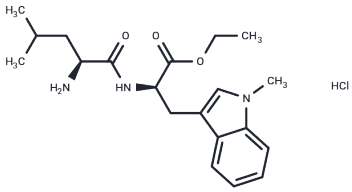
Data Sheet (Cat.No.T39476)

TargetMol
YOUR TARGET MOLECULES

NLG802

Chemical Properties



CAS No. : 2071683-99-1

Formula: C20H30ClN3O3

Molecular Weight: 395.92

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	NLG802 is a prodrug of indoximod, an orally active indoleamine 2,3-dioxygenase (IDO) inhibitor.
Targets(IC50)	Indoleamine 2,3-Dioxygenase (IDO)
In vitro	NLG802 showed moderate direct (IC50 5 μM) and time dependent (7-fold shift) inhibition of CYP3A4, weak inhibition to CYP2D6 (IC50 19 μM) and CYP2C19 (IC50 47 μM), no inhibition of CYP450 1A2, 2B6, 2C8 and 2C9 (IC50 > 50 μM) and no induction of CYP1A2, 2B6 or 3A4 in human hepatocytes. NLG802 showed moderate inhibition of P-gp transporter activity in MDR1-MDCKII cells (IC50 27 μM), does not inhibit the anion and cation transporters OATP1B1, OATP1B3, OAT1, OAT3, OCT1 and OCT2 in HEK293 cells expressing these transporters (IC50 > 50 μM) or the BRCP transporter in Caco-2 cells[1].

Solubility Information

Solubility	DMSO: 225 mg/mL (568.3 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5258 mL	12.6288 mL	25.2576 mL
5 mM	0.5052 mL	2.5258 mL	5.0515 mL
10 mM	0.2526 mL	1.2629 mL	2.5258 mL
50 mM	0.0505 mL	0.2526 mL	0.5052 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Kumar S, et al. Discovery of indoximod prodrugs and characterization of clinical candidate NLG802. Eur J Med Chem. 2020 Jul 15;198:112373.

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