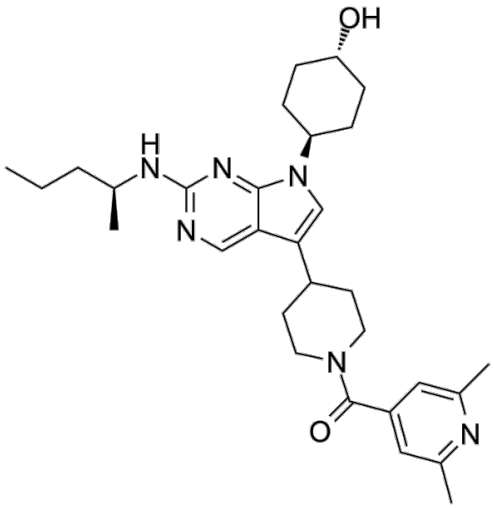
Product Data Sheet

Product Name: UNC5293
Cat. No.: GC62516

Chemical Properties

Cas. No.	2226789-82-6		
Formula	$C_{30}H_{42}N_6O_2$	M.Wt	518.69
Solubility	DMSO : 100 mg/mL (192.79 mM; Need ultrasonic)	Storage	4°C, protect from light
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

UNC5293 is a MERTK-selective and potent inhibitor (Ki=190 pM). UNC5293 inhibits MERTK

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(IC50=0.9 nM) and is more selective over Axl, Tyro3 and Flt3. UNC5293 exhibits excellent mouse PK properties and is used for bone marrow leukemia research[1].

UNC5293 provides selective target inhibition in cell-based assays. In cultures of the human B-cell acute lymphoblastic leukemia (B-ALL) cell line, UNC5293 inhibits phosphorylation of MERTK with an IC50 of 9.4 nM. In the SEM B-ALL cell line, UNC5293 is less potent against FLT3, with an IC50 of 170 nM[1].

UNC5293 (oral administration; 120 mg/kg; single dose) effectively inhibit MERTK in vivo in orthotopic 697 B-ALL mice xenografts[1].UNC5293 (oral gavage; 3 mg/kg; single dose) has excellent mouse PK properties (7.8 h half-life and 58% oral bioavailability), and the Cmax and AUClast are 9.2 μM and 2.5 h*μM, respectively[1].

[1]. Hongchao Zheng, et al. UNC5293, a potent, orally available and highly MERTK-selective inhibitor. Eur J Med Chem. 2021 May 17;220:113534.

Caution: Product has not been fully validated for medical applications. For research use only.
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