产品名称：
(1r,4r)-4-((2-(Butylamino)-5-(5-(morpholinomethyl)pyridin-2-yl)pyrimidin-4-yl)amino)cyclohexanol
产品别名：**UNC2250**

生物活性：

Description	UNC2250 is a potent and selective **Mer** inhibitor with an **IC_{50}** of 1.7 nM, about 160- and 60-fold selectivity over the closely related kinases Axl/Tyro3.
IC_{50} & Target	IC50: 1.7 nM (Mer)[1]
In Vitro	UNC2250 (5-500 nM; 1 hour) inhibits Mer phosphorylation in 697 B-ALL cells with an IC50 value of 9.8 nM[1]. UNC2250 efficiently inhibits ligand-dependent phosphorylation of a chimeric protein consisting of the extracellular and transmembrane domains of the epidermal growth factor (EGF) receptor and the intracellular tyrosine kinase domain of Mer[1]. UNC2250 incubation inhibits colony formation in soft agar cultures of the BT-12 rhabdoid tumor and the Colo699 NSCLC cell lines[1] .

Western Blot Analysis[1]

Cell Line:	697 B-ALL cells
Concentration:	5, 10, 20, 50, 100, 250, 500 nM
Incubation Time:	1 hour
Result:	Inhibits Mer phosphorylation in 697 B-ALL cells with an IC_{50} value of 9.8 nM.

Solvent&Solubility

In Vitro:

DMSO : 20 mg/mL (**45.39 mM;** ultrasonic and warming and heat to 60°C)

0.1 M HCL : 12.5 mg/mL (**28.37 mM;** ultrasonic and adjust pH to 3 with HCl)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.2697 mL	11.3487 mL	22.6974 mL
5 mM	0.4539 mL	2.2697 mL	4.5395 mL
10 mM	0.2270 mL	1.1349 mL	2.2697 mL

*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液；一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。

储备液的保存方式和期限：-80°C, 6 months; -20°C, 1 month。-80°C 储存时，请在 6 个月内使用，-20°C 储存时，请在 1 个月内使用。

References

[1]. Zhang, W., et al., Pseudo-cyclization through intramolecular hydrogen bond enables discovery of pyridine substituted pyrimidines as new Mer kinase inhibitors. J Med Chem, 2013. 56(23): p. 9683-92.

[2]. Xiaodong Wang, et al. Pyrimidine compounds for the treatment of cancer.WO2013177168A1.