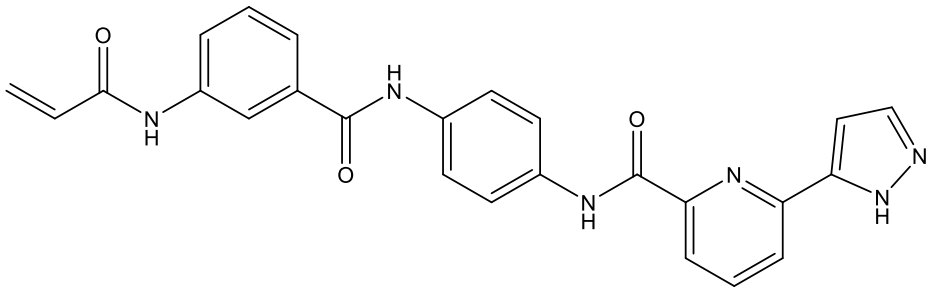
Catalog # 10-4691

JH-X-119-01

CAS# 2227368-54-7

N-(4-(3-Acrylamidobenzamido)phenyl)-6-(1H-pyrazol-5-yl)picolinamide; N-[4-[[3-(Prop-2-enoylamino)benzoyl]amino]phenyl]-6-(1H-pyrazol-5-yl)pyridine-2-carboxamide

Lot # FBS3095



JH-X-119-01 is a highly selective (only significantly inhibited YSK4 and MEK3 in a panel of over 300 kinases) and potent (IC_{50} = 9 nM) covalent inhibitor of interleukin 1 receptor-associated kinase 1 (IRAK1). It displayed cytotoxic activity against several lymphoma cell lines and exhibited synergism with the BTK inhibitor Ibrutinib in the same systems. JH-X-119-01 protected mice from LPS-induced sepsis[2] and ameliorated acute graft-versus-host disease in mice undergoing allogenic hematopoietic cell transplantation without effecting the anti-lymphoma effect[3].

1) Hatcher *et al*. (2020), *Discovery of a Selective, Covalent IRAK1 Inhibitor with Antiproliferative Activity in MYD88 Mutated B-Cell Lymphoma*; ACS Med. Chem. Lett. **11** 2238

2) Pan *et al*. (2020), *Selective inhibition of interleukin-1 receptor-associated kinase 1 ameliorates lipopolysaccharide-induced sepsis in mice*; Int. Immunopharmacol. **85** 106597

3) Gao *et al*. (2022), *Inhibition of IL1 Receptor-Associated Kinase 1 Decreases Murine Acute Graft-versus-Host Disease While Preserving the Graft-versus-Lymphoma Effect*; Transplant Cell Ther. **28** 134.e1

PHYSICAL DATA

Molecular Weight:	452.47
Molecular Formula:	$C_{25}H_{20}N_6O_3$
Purity:	98% by HPLC NMR: (Conforms)
Solubility:	DMSO (>25 mg/ml)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month.

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