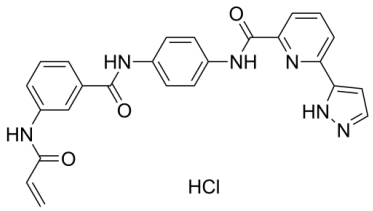
Data Sheet

Product Name:	JH-X-119-01 (hydrochloride)
Cat. No.:	CS-7638
CAS No.:	2591344-30-6
Molecular Formula:	$C_{25}H_{21}ClN_6O_3$
Molecular Weight:	488.93
Target:	IRAK
Pathway:	Immunology/Inflammation
Solubility:	DMSO : 50 mg/mL (102.26 mM; Need ultrasonic); H2O : < 0.1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble)



BIOLOGICAL ACTIVITY:

JH-X-119-01 hydrochloride is a potent and selective interleukin-1 receptor-associated kinases 1 (**IRAK1**) inhibitor. JH-X-119-01 hydrochloride ameliorates LPS-induced sepsis in mice[1]. ***In Vitro:*** Jh-X-119-01 (10 μM) decreases phosphorylation of NF-κB and mRNA levels of IL-6 and TNFα in LPS-treated macrophages in vitro. Jh-X-119-01 selectively inhibits IRAK1 phosphorylation[1]. ***In Vivo:*** Jh-X-119-01 improves survival and decreases immunopathies of LPS-challenged mice. Jh-X-119-01 increases survival of mice at the dose of 5 mg/kg body weight. Survival is further improved when the dose is increased to 10 mg/kg[1].

References:

[1]. Bin Pan, et al. Selective inhibition of interleukin-1 receptor-associated kinase 1 ameliorates lipopolysaccharide-induced sepsis in mice. Int Immunopharmacol. 2020 Aug;85:106597.

CAIndexNames:

2-Pyridinecarboxamide, N-[4-[[3-[(1-oxo-2-propen-1-yl)amino]benzoyl]amino]phenyl]-6-(1H-pyrazol-3-yl)-, hydrochloride (1:1)

SMILES:

O=C(C=C)NC1=CC=CC(C(NC2=CC=C(NC(C3=NC(C4=CC=NN4)=CC=C3)=O)C=C2)=O)=C1.Cl

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

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