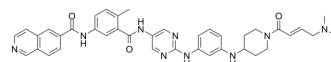


BLK-IN-2

Cat. No.:	HY-144288		
CAS No.:	2694871-86-6		
Molecular Formula:	C ₃₉ H ₄₁ N ₉ O ₃		
Molecular Weight:	683.8		
Target:	Btk		
Pathway:	Protein Tyrosine Kinase/RTK		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (182.80 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.4624 mL	7.3121 mL	14.6242 mL
5 mM	0.2925 mL	1.4624 mL	2.9248 mL
10 mM	0.1462 mL	0.7312 mL	1.4624 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

BLK-IN-2 (compound 25) is a potent and selective irreversible inhibitor of B-Lymphoid tyrosine kinase (BLK), with an IC₅₀ of 5.9 nM. BLK-IN-2 also inhibits BTK (IC₅₀=202.0 nM). BLK-IN-2 shows potent antiproliferative activities against several lymphoma cells^[1].

IC₅₀ & Target

IC₅₀: 5.9 nM (BLK)^[1], 202.0 nM (BTK)^[1]

REFERENCES

[1]. Fu T, et, al. Discovery of selective irreversible inhibitors of B-Lymphoid tyrosine kinase (BLK). Eur J Med Chem. 2022 Feb 5;229:114051.

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

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