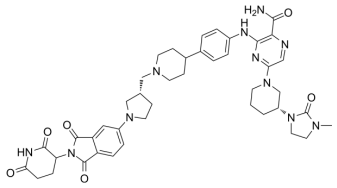
NRX-0492

Cat. No.:	HY-153357
CAS No.:	2416130-57-7
Molecular Formula:	$C_{43}H_{51}N_{11}O_6$
Molecular Weight:	817.94
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 : 200 mg/mL (244.52 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.2226 mL	6.1129 mL	12.2258 mL
	5 mM	0.2445 mL	1.2226 mL	2.4452 mL
	10 mM	0.1223 mL	0.6113 mL	1.2226 mL

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

BIOLOGICAL ACTIVITY

Description

NRX-0492 is an orally active and potent degrader of BTK. NRX-0492 catalyzes ubiquitylation and proteasomal degradation of BTK with DC_{50}≤0.2 nM and DC_{90}≤0.5 nM, respectively. NRX-0492 inhibits B-cell receptor (BCR)-mediated signaling, transcriptional programs, and chemokine secretion. Moreover, NRX-0492 also links a noncovalent BTK-binding domain to Cereblon. Cereblon is an adaptor protein of the E3 ubiquitin ligase complex[1].

REFERENCES

[1]. Zhang D, et al. NRX-0492 degrades wild-type and C481 mutant BTK and demonstrates in vivo activity in CLL patient-derived xenografts. Blood. 2023 Mar 30;141(13):1584-1596.

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

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