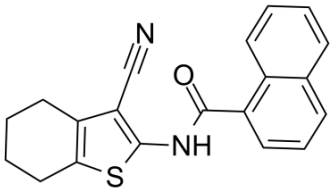
TCS JNK 5a

Cat. No.:	HY-15881
CAS No.:	312917-14-9
Molecular Formula:	$C_{20}H_{16}N_2OS$
Molecular Weight:	332.42
Target:	JNK; Apoptosis
Pathway:	MAPK/ERK Pathway; Apoptosis
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 : ≥ 51 mg/mL (153.42 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.0082 mL	15.0412 mL	30.0824 mL
	5 mM	0.6016 mL	3.0082 mL	6.0165 mL
	10 mM	0.3008 mL	1.5041 mL	3.0082 mL

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

BIOLOGICAL ACTIVITY

Description	TCS JNK 5a is a potent **JNK3** inhibitor with a **pIC_{50}** of 6.7. TCS JNK 5a also inhibits **JNK2** with a **pIC_{50}** of 6.5.	
IC_{50} & Target	JNK3 6.7 (pIC_{50})	JNK2 6.5 (pIC_{50})
In Vitro	TCS JNK 5a is also screened in a panel of more than 30 kinase assays, including Alk5, c-Fms, CDK-2, EGFR, ErbB2, GSK3β, PLK1, Src, Tie-2 and VegFr2, and is inactive (pIC_{50}<5.0) against all of them[1].	

REFERENCES

[1]. Angell RM, et al. N-(3-Cyano-4,5,6,7-tetrahydro-1-benzothien-2-yl)amides as potent, selective, inhibitors of JNK2 and JNK3. Bioorg Med Chem Lett. 2007

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