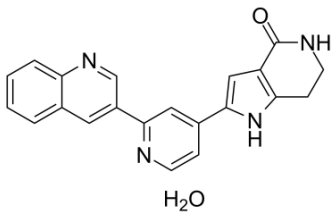
MK-2 Inhibitor III

Cat. No.:	HY-112457
CAS No.:	1186648-22-5
Molecular Formula:	$C_{21}H_{18}N_4O_2$
Molecular Weight:	358.39
Target:	MAPKAPK2 (MK2)
Pathway:	MAPK/ERK Pathway
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	MK-2 Inhibitor III (compound 16) is an orally active, selective, and ATP-competitive **MAPKAP-K2 (MK-2)** inhibitor with an **IC_{50}** of 0.85 nM, and is exceptional selectivity against MK-3 (**IC_{50}**=0.21 μM), MK-5 (**IC_{50}**=0.081 μM), ERK2 (**IC_{50}** =3.44 μM), MNK1(**IC_{50}**=5.7 μM) as well as CDK2, JNK2, IKK2, MSK1, and MSK2[1].
IC_{50} & Target	IC50: 0.85 nM (MK-2), 0.21 μM (MK-3), 0.081 μM (MK-5), 3.44 μM (ERK2), 5.7 μM (MNK1)[1]
In Vitro	MK-2 Inhibitor III suppresses TNFα production in U397 cells with an IC_{50} of 4.4 μM[1].

REFERENCES

[1]. Anderson DR, et al. Pyrrolopyridine inhibitors of mitogen-activated protein kinase-activated protein kinase 2 (MK-2). J Med Chem. 2007 May 31;50(11):2647-54.

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