

Product Data Sheet

Product Name: MK2-IN-3

Cat. No.: GC61819

Chemical Properties

Cas. No. 724711-21-1

SMILES O=C1C2=C(NC(C3=CC(C4=CC5=CC=CC=C5N=C4)=NC=C3)=C2)CCN1

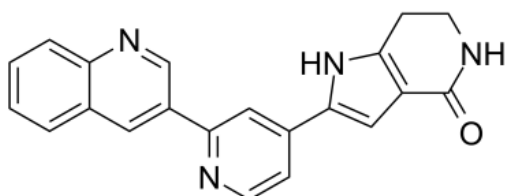
Formula $C_{21}H_{16}N_4O$ M.Wt 340.38

Solubility DMSO : 62.5 mg/mL (183.62 mM) Storage 4°C, protect from light

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

MK2-IN-3 is a potent and selective inhibitor of MAPKAP-K2 (MK-2), with an IC₅₀ of 8.5 nM. MK2-IN-3 shows selectivity for MK-2 over MK-3, MK-5, ERK2, MNK1, p38a (IC₅₀s=0.21, 0.081, 3.44, 5.7, and >100 μM, respectively) and MSK1, MSK2, CDK2, JNK2, IKK2 (IC₅₀s>200 μM). MK2-IN-3 can

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reduce TNF α production in both U937 cells and in vivo[1].

MK2-IN-3 (compound 16) inhibits MK-2 and TNF α production in U937 cells, with IC₅₀s of 8.5 nM and 4.4 μ M, respectively[1].

MK2-IN-3 (compound 16) (20 mg/kg; a single p.o. before LPS challenge) inhibits 20% TNF α production in rat LPS (rLPS) model[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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