

OK2

Chemical Properties

CAS No. :

Formula: C42H62N14O9

Molecular Weight: 907.03

Keep away from moisture

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	OK2, a specific inhibitor of the CCN2/EGFR interaction, effectively disrupts this interaction by binding to the CT domain of CCN2 and holds potential for research on kidney fibrosis and chronic kidney disease [1].
Targets(IC50)	EGFR,STAT
In vitro	OK2 at concentrations ranging from 0 to 100 μ M over a time course of 24 hours inhibits the activation of EGFR, phosphorylation of STAT3, and the synthesis of ECM proteins in HK-2 cells [1].
In vivo	OK2 (50 μ g/kg, intraperitoneal injection, for 14 days) inhibited CCN2-induced EGFR/STAT3 activation and prevented renal fibrosis in a unilateral ureteral obstruction (UUO) mouse model [1]. Additionally, OK2 administered subcutaneously at a dose of 1 mg/kg in male Sprague Dawley rats exhibited a half-life (T _{1/2}) of 0.9 hours and a peak concentration (C _{max}) of 1057.8 ng/mL [1]. Pharmacokinetic parameters for OK2 in this rat model included a T _{1/2} of 0.9 hours, a C _{max} of 1057.8 ng/mL, and an area under the curve (AUC _{0-t}) of 3032.0 h•ng/mL following a single subcutaneous injection [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1025 mL	5.5125 mL	11.025 mL
5 mM	0.2205 mL	1.1025 mL	2.205 mL
10 mM	0.1102 mL	0.5512 mL	1.1025 mL
50 mM	0.022 mL	0.1102 mL	0.2205 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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