

Klotho-derived Peptide 1 (56-87) (human) TFA

Chemical Properties

CAS No. :

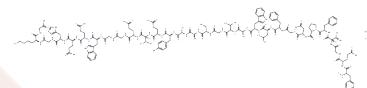
Formula: C149H203N39O43.XCF3COOH

Molecular Weight: 3228.44

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	Klotho-derived peptide 1 (KP1) (56-87), a peptide originating from the human Klotho protein, disrupts TGF- β signaling by binding to TGF- β receptor types 1 and 2 (TGFBR1 and TGFBR2; Kds = 1.41 and 14.6 μ M, respectively). Preincubation with KP1 at a concentration of 10 μ g/ml hinders the TGF- β -induced escalation of fibronectin and α -smooth muscle actin (α -SMA) levels in NRK-49F rat fibroblasts. Furthermore, in vivo studies reveal that KP1, administered at 1 mg/kg per day, preferentially accumulates in damaged kidneys, leading to significant reductions in serum creatinine and blood urea nitrogen levels, indicators of improved kidney function. Additionally, it decreases kidney fibrosis in mouse models of unilateral ureteral obstruction (UUO) and unilateral ischemia-reperfusion injury-induced renal fibrosis.
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Solubility Information

Solubility	H2O: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.3097 mL	1.5487 mL	3.0975 mL
5 mM	0.0619 mL	0.3097 mL	0.6195 mL
10 mM	0.031 mL	0.1549 mL	0.3097 mL
50 mM	0.0062 mL	0.031 mL	0.0619 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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