

RK-682 (calcium salt)

Chemical Properties

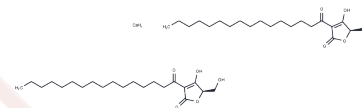
CAS No. : 332131-32-5

Formula: C₄₂H₇₄CaO₁₀

Molecular Weight: 779.122

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	Protein tyrosine phosphatases (PTPs) remove phosphate from tyrosine residues of cellular proteins. Reversible phosphorylation catalyzed by the coordinated actions of protein tyrosine kinases and phosphatases is key to the regulation of the signaling events that control cell growth and proliferation, differentiation, and survival or apoptosis, as well as adhesion and motility. RK-682, a bioactive compound originally isolated from the fermentation of <i>Streptomyces</i> sp. 88-682, is an inhibitor of the PTPs. It inhibits the phosphorylation of CD45 and VHR with IC ₅₀ values of 54 and 2 μM, respectively, and arrests cell cycle progress at the G ₁ /S transition. It is also reported to inhibit heparanase (IC ₅₀ = 17 μM), an endo-β-D-glucuronidase involved in tumor cell invasion and angiogenesis. RK-682 (calcium salt) is a less soluble version of the free acid.
Targets(IC ₅₀)	ERK,Others,HIV Protease,Autophagy,Phosphatase,Phospholipase

Solubility Information

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

	1mg	5mg	10mg
1 mM	1.2835 mL	6.4175 mL	12.835 mL
5 mM	0.2567 mL	1.2835 mL	2.567 mL
10 mM	0.1283 mL	0.6417 mL	1.2835 mL
50 mM	0.0257 mL	0.1283 mL	0.2567 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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