

(S)-Ro 32-0432

Chemical Properties

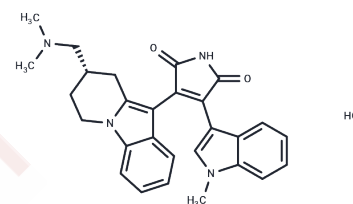
CAS No. : 1781828-85-0

Formula: C₂₈H₂₉ClN₄O₂

Molecular Weight: 489.01

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	(S)-Ro 32-0432 is a potent, selective inhibitor of protein kinase C (PKC) and G protein-coupled receptor kinase 5 (GRK5), demonstrating ATP-competitive and oral activity. It presents IC ₅₀ values of 9.3 nM for PKC α , 28 nM for PKC β I, 30 nM for PKC β II, 36.5 nM for PKC γ , and 108.3 nM for PKC ϵ , showcasing its effectiveness against multiple PKC isoforms. Additionally, (S)-Ro 32-0432 inhibits T-cell activation, indicating its potential application in the research of chronic inflammatory and autoimmune diseases [1] [2].
Targets(IC ₅₀)	Others,PKC
In vitro	(S)-Ro 32-0432 effectively suppresses interleukin-2 (IL-2) secretion, IL-2 receptor expression, and proliferation in human peripheral T-cells when activated with phorbol ester alongside phytohemagglutinin or anti-CD3. However, it does not affect IL-2 induced proliferation in cells that have already been stimulated to express IL-2 receptors. Furthermore, this compound hinders the proliferation of the influenza peptide antigen HA 307-319-specific human T-cell clone (HA27) when these cells encounter antigen-presenting cells. Specifically, (S)-Ro 32-0432 demonstrates an inhibitory concentration (IC ₅₀) of 0.15 μ M [1], indicating its potency in blocking HA27 proliferation.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0449 mL	10.2247 mL	20.4495 mL
5 mM	0.409 mL	2.0449 mL	4.0899 mL
10 mM	0.2045 mL	1.0225 mL	2.0449 mL
50 mM	0.0409 mL	0.2045 mL	0.409 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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