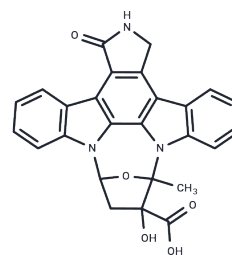


K-252b

Chemical Properties

CAS No. : 99570-78-2
 Formula: C₂₆H₁₉N₃O₅
 Molecular Weight: 453.45
 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	K-252b, an indolocarbazole derived from the actinomycete Nocardiosis, functions as a protein kinase C (PKC) inhibitor. It is effective in inhibiting extracellular kinases in cultured cells due to its inability to freely cross the cell membrane.
Targets(IC50)	PKC

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2053 mL	11.0266 mL	22.0531 mL
5 mM	0.4411 mL	2.2053 mL	4.4106 mL
10 mM	0.2205 mL	1.1027 mL	2.2053 mL
50 mM	0.0441 mL	0.2205 mL	0.4411 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.

Reference

Yasuzawa, T., et al. The structures of the novel protein kinase C inhibitors K-252a, b, c AND d Journal of Antibiotics 39(8), 1072-1078 (1986).

Plomp, J.J., et al. Involvement of protein kinases in the upregulation of acetylcholine release at endplates of α -bungarotoxin-treated rats Journal of Physiology 493, 175-186 (1996).

Zhu, X., et al. Evidence of ectokinase-mediated phosphorylation of osteopontin and bone sialoprotein by osteoblasts during bone formation in vitro Biochemistry Journal 323, 637-643 (1997).

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