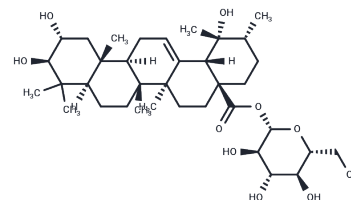


Rosamultin

Chemical Properties

CAS No. : 88515-58-6
Formula: C₃₆H₅₈O₁₀
Molecular Weight: 650.84
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Rosamultin has antioxidant, antiinflammatory/antinociceptive properties, and has anti-human immunodeficiency virus (HIV) activity.
Targets(IC50)	Antioxidant, HIV Protease
In vitro	Rosamultin isolated from the root of <i>R. rugosa</i> inhibited HIV-1 protease by 53% at a concentration of 100 microM.
Kinase Assay	A substrate, His-Lys-Ala-ArgVal-Leu-(pNO ₂ -Phe)-Glu-Ala-Nle-Ser-NH ₂ , Inc. For the HIV1 protease assay, the stock solution of the prepared enzyme was diluted. The extracts or compounds (Rosamultin) tested were dissolved in dimethyl sulfoxide (10% in the reaction mixture). A reaction mixture (5 uL) composed of 1 L of 50 uM sodium acetate (pH 5.0), 1 uL of a substrate solution, 1 uL of the plant extract or compound solution, and 2 uL of HIV1 protease solution, was stirred, centrifuged, and then incubated at 37°C for 1 hour in a microtube. A control reaction was performed under the same conditions without plant extract or compounds. The reaction was stopped by heating at 90 °C for 1 minute. Thirty-five microliters of autoclaved water was added into the reaction mixture, and an aliquot of 5 uL was analyzed by high-performance liquid chromatography (HPLC).

Solubility Information

Solubility	DMSO: 10 mg/mL (15.36 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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A DRUG SCREENING EXPERT

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5365 mL	7.6824 mL	15.3648 mL
5 mM	0.3073 mL	1.5365 mL	3.073 mL
10 mM	0.1536 mL	0.7682 mL	1.5365 mL
50 mM	0.0307 mL	0.1536 mL	0.3073 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.

Reference

Park J C , Kim S C , Choi M R , et al. Anti-HIV Protease Activity from Rosa Family Plant Extracts and Rosamultin from *Rosa rugosa*[J]. Journal of Medicinal Food, 2005, 8(1):107-109.

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