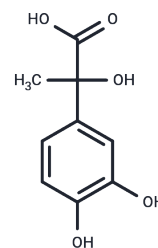


alpha-(3,4-Dihydroxyphenyl)lactic acid

Chemical Properties

CAS No. :	22681-72-7
Formula:	C9H10O5
Molecular Weight:	198.17
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Danshensu has antioxidant activity, can enhance HO-1 expression to suppress 6-OHDA-induced oxidative damage via PI3K/Akt/Nrf2 signaling pathways.
Targets(IC50)	Antioxidant
Kinase Assay	The recombinant HCV polymerases used in this study contain the first 570 amino acids of the 591-amino acid native protein sequence, with a six-histidine tag at the N terminus to facilitate purification by affinity chromatography. Briefly, ABT-333 (Dasabuvir) is incubated with 5 to 50 nM polymerase for 15 min at room temperature, follow by the addition of nucleoside triphosphates (NTPs) and [3H]UTP for 3 h at 30°C. After termination of the reaction, the precipitated RNA is captured by filtration through a GF/B filter. The amount of incorporated [3H]UTP is measured by scintillation counting with a Wallac 1450 MicroBeta counter. The percent inhibition is calculated from the initial rates of inhibited reactions relative to that of the uninhibited control reaction. The mean 50% inhibitory concentration (IC50) and the standard error of the mean (SEM) are calculated via nonlinear regression[1].

Solubility Information

Solubility	Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, DMSO: Soluble, (< 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	5.0462 mL	25.2309 mL	50.4617 mL
5 mM	1.0092 mL	5.0462 mL	10.0923 mL
10 mM	0.5046 mL	2.5231 mL	5.0462 mL
50 mM	0.1009 mL	0.5046 mL	1.0092 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

Kwon G1, Kim HJ2, Park SJ1, et al. Anxiolytic-like effect of danshensu [(3-(3,4-dihydroxyphenyl)-lactic acid)] in mice. Life Sci. 2014 Apr 17;101(1-2):73-8.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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