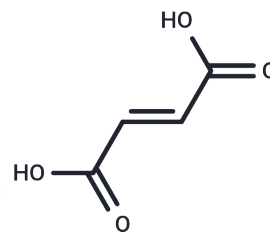


Fumaric acid

Chemical Properties

CAS No. :	110-17-8
Formula:	C ₄ H ₄ O ₄
Molecular Weight:	116.07
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	Fumaric acid (2-Butenedioic acid) attenuates the eotaxin-1 expression in TNF- α -stimulated fibroblasts by suppressing p38 MAPK-dependent NF- κ B signaling. Fumaric acid has recently been identified as an oncometabolite or an endogenous, cancer-causing metabolite. High levels of this organic acid can be found in tumors or biofluids surrounding tumors. Its oncogenic action appears due to its ability to inhibit polyhydroxylase-containing enzymes.
Targets(IC50)	NF- κ B, Endogenous Metabolite, p38 MAPK

Solubility Information

Solubility	DMSO: 62.5 mg/mL (538.47 mM), Sonication is recommended. Chloroform, Dichloromethane, Ethyl Acetate, Acetone: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	8.6155 mL	43.0775 mL	86.1549 mL
5 mM	1.7231 mL	8.6155 mL	17.231 mL
10 mM	0.8615 mL	4.3077 mL	8.6155 mL
50 mM	0.1723 mL	0.8615 mL	1.7231 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

Chen X, et al. Fumaric acid production by *Torulopsis glabrata*: engineering the urea cycle and the purine nucleotide cycle. *Biotechnol Bioeng*. 2015 Jan;112(1):156-67.

Roh KB, et al. Fumaric acid attenuates the eotaxin-1 expression in TNF- α -stimulated fibroblasts by suppressing p38 MAPK-dependent NF- κ B signaling. *Food Chem Toxicol*. 2013 Aug;58:423-31.

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