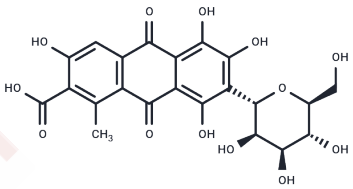
Data Sheet (Cat.No.TN1467)

TargetMol

Carmine

Chemical Properties



CAS No. : 1390-65-4

Formula: C22H20O13

Molecular Weight: 492.39

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	Carmine (Carmine red) is an azo dye derived from dried Dactylopius coccus var. Costa and is an added food coloring.Carmine causes immediate hypersensitivity and delayed systemic reactions.3-Phosphoglyceric acid (Glycerate 3-phosphate) is a glycolic acid derivative involved in glycolysis and the Calvin cycle, and in the epigenetic regulation of alveolar macrophages.
Targets(IC50)	Others

Solubility Information

Solubility	H2O: 100 mg/mL (203.09 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0309 mL	10.1546 mL	20.3091 mL
5 mM	0.4062 mL	2.0309 mL	4.0618 mL
10 mM	0.2031 mL	1.0155 mL	2.0309 mL
50 mM	0.0406 mL	0.2031 mL	0.4062 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

Chandler W Rundle, et al. Contact Dermatitis to Carmine. Dermatitis. Sep/Oct 2018;29(5):244-249.
R W Dapson, et al. The history, chemistry and modes of action of carmine and related dyes. Biotech Histochem. 2007 Aug;82(4-5):173-87.
S Acero, et al. Occupational asthma and food allergy due to carmine. Allergy. 1998 Sep;53(9):897-901.

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