

Cyanidin 3-arabinoside

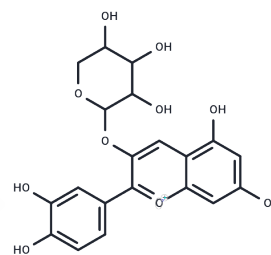
Chemical Properties

CAS No. : 27214-72-8

Formula: C₂₀H₁₉O₁₀

Molecular Weight: 419.36

Storage: Store at low temperature, Keep away from direct sunlight
 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	Cyanidin 3-arabinoside (Cyanidin 3-monoarabinoside) is an anthocyanin extracted from blueberries that is a selective protein tyrosine phosphatase 1B (PTP1B) inhibitor, with potential anticancer activity, and can be used in the study of type 2 diabetes.
Targets(IC50)	Phosphatase
In vitro	Cyanidin 3-arabinoside is a compound that selectively inhibits protein tyrosine phosphatase 1B (PTP1B) in a reversible manner, with a half inhibitory concentration (IC50) of 8.91 μM. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3846 mL	11.9229 mL	23.8459 mL
5 mM	0.4769 mL	2.3846 mL	4.7692 mL
10 mM	0.2385 mL	1.1923 mL	2.3846 mL
50 mM	0.0477 mL	0.2385 mL	0.4769 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

Tian JL, et al. Identification of Cyanidin-3-arabinoside Extracted from Blueberry as a Selective Protein Tyrosine Phosphatase 1B Inhibitor. J Agric Food Chem. 2019 Dec 11;67(49):13624-13634.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481