

Hematoxylin

Chemical Properties

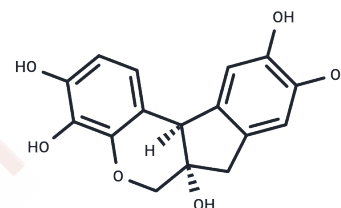
CAS No. : 517-28-2

Formula: C16H14O6

Molecular Weight: 302.28

Storage: Keep away from direct sunlight, Store under nitrogen
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	Hematoxylin (Natural Black 1) is a dye obtained from the heartwood of logwood (<i>Haematoxylon campechianum</i> Linn., Leguminosae) used as a stain in microscopy and in the manufacture of ink.
Targets(IC50)	Beta Amyloid
In vivo	Hematoxylin and eosin staining is one of the most commonly used histological staining methods. Hematoxylin (Hydroxybrazilin) is a compound that forms strongly colored complexes with certain metal ions, especially with Fe(III) and Al(III) salts, and acts as a histological stain.

Solubility Information

Solubility	DMSO: 83.33 mg/mL (275.67 mM), Sonication is recommended. Ethanol: 57 mg/mL (188.57 mM), Sonication is recommended. H2O: 56 mg/mL (185.26 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (6.62 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3082 mL	16.541 mL	33.0819 mL
5 mM	0.6616 mL	3.3082 mL	6.6164 mL
10 mM	0.3308 mL	1.6541 mL	3.3082 mL
50 mM	0.0662 mL	0.3308 mL	0.6616 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

Godwin A, J Pharm Clin Sci, 2011, 1, 24-34.

Li H, Pang B, Nie B, et al. Dioscin promotes autophagy by regulating the AMPK-mTOR pathway in ulcerative colitis. Immunopharmacology and Immunotoxicology. 2022: 1-9.

Zhang M, Hao Z, Wu J, et al. Curcumin ameliorates traumatic brain injury via C1q3-mediated microglia M2 polarization. Tissue and Cell. 2023: 102164.

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