

C.I. 37545

Chemical Properties

CAS No. : 92-73-9

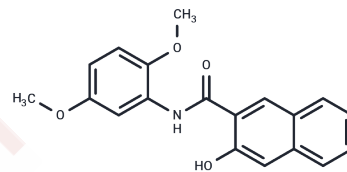
Formula: C₁₉H₁₇NO₄

Molecular Weight: 323.35

Keep away from direct sunlight

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	C.I. 37545 is also known as Azoic dyes. C.I. 37545 is impregnated cotton with an alkaline solution of β -naphthol, then treated it with a diazo solution obtained from aniline, a toluidine, xylidine, naphthylamine, aminoazobenzene or aminoazotoluene, so that particles of an azo pigment were formed and became firmly fixed within the fibre. Sensitisation to PPD on a henna tattoo with cross reaction to azoic dyes. may produce an increase in the frequency of contact dermatitis due to henna mixtures with cross-reaction to related compounds and possibly producing permanent skin changes.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0926 mL	15.4631 mL	30.9262 mL
5 mM	0.6185 mL	3.0926 mL	6.1852 mL
10 mM	0.3093 mL	1.5463 mL	3.0926 mL
50 mM	0.0619 mL	0.3093 mL	0.6185 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

Oturkar CC, Patole MS, R Gawai K, Madamwar D. Enzyme based cleavage strategy of Bacillus lentus BI377 in response to metabolism of azoic recalcitrant. Bioresour Technol. 2013 Feb;130:360-5. doi: 10.1016/j.biortech.2012.12.019. Epub 2012 Dec 14. PubMed PMID: 23313681.

Di Prisco MC, Puig L, Alomar A. Contact dermatitis due to para-phenylenediamine (PPD) on a temporal tattoo with henna. Cross reaction to azoic dyes. Invest Clin. 2006 Sep;47(3):295-9. PubMed PMID: 17672289.

Teimouri A, Chermahini AN, Taban K, Dabbagh HA. Experimental and CIS, TD-DFT, ab initio calculations of visible spectra and the vibrational frequencies of sulfonyl azide-azoic dyes. Spectrochim Acta A Mol Biomol Spectrosc. 2009 Mar;72(2):369-77. doi: 10.1016/j.saa.2008.10.006. Epub 2008 Oct 21. PubMed PMID: 19042151.

Dvininov E, Popovici E, Pode R, Coheci L, Barvinschi P, Nica V. Synthesis and characterization of TiO₂-pillared Romanian clay and their application for azoic dyes photodegradation. J Hazard Mater. 2009 Aug 15;167(1-3):1050-6. doi: 10.1016/j.jhazmat.2009.01.105. Epub 2009 Feb 6. PubMed PMID: 19250741.

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