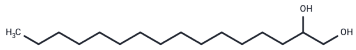
Data Sheet (Cat.No.T20381)

TargetMol

Cetyl glycol

Chemical Properties



CAS No. : 6920-24-7

Formula: C16H34O2

Molecular Weight: 258.44

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	Cetyl glycol (NSC-71525) favors the decomposition of the metal-organic precursor, formation of an intermediate Co(2+)Fe(3+)-oleate complex, and the nucleation of nanoparticles at lower temperatures. Cetyl glycol is a reducing agent that can be used in cosmetics.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 1 mg/mL (3.87 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.8694 mL	19.3469 mL	38.6937 mL
5 mM	0.7739 mL	3.8694 mL	7.7387 mL
10 mM	0.3869 mL	1.9347 mL	3.8694 mL
50 mM	0.0774 mL	0.3869 mL	0.7739 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

Moya C, et al. Tuning the magnetic properties of Co-ferrite nanoparticles through the 1,2-hexadecanediol concentration in the reaction mixture. Phys Chem Chem Phys. 2015 May 21;17(19):13143-9.
Escoda-Torroella M, et al. Selective Control over the Morphology and the Oxidation State of Iron Oxide Nanoparticles. Langmuir. 2021 Jan 12;37(1):35-45.
Eom Y, et al. Phase controlled one-pot synthesis of heterostructured FePt-Fe3O4 nanocubes with excellent biocompatibility. RSC Adv. 2020 Dec 9;10(71):43480-43488.
Zhu L, Richardson BJ, Yu Q. Controlled colloidal synthesis of iron pyrite FeS2 nanorods and quasi-cubic nanocrystal agglomerates. Nanoscale. 2014 Jan 21;6(2):1029-37.

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