Product Data Sheet

Product Name: Naphthoresorcinol
Cat. No.: GC61712

Chemical Properties

Cas. No.	132-86-5		
SMILES	OC1=C2C=CC=CC2=CC(O)=C1		
Formula	$C_{10}H_8O_2$	M.Wt	160.17
Solubility	DMSO : 100 mg/mL (624.34 mM; Need ultrasonic)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	Naphthoresorcinol		

Background

Naphthoresorcinol (1,3-Dihydroxynaphthalene) is a fluorescent dye (Λex=330 nm, Λem=380 nm) that can react with the NPPD (a tracer) and concentrated HCl and develop a red color. Naphthoresorcinol could be used as a background electrolyte (BGE) to determine the carbohydrates[1][2][3].

[1]. Vyas S, et, al. Fluorescence and light scattering studies on the interaction of 1,3-dihydroxynaphthalene with ionic and non-ionic surfactants. Polymer Photochemistry. 1984; 4(4):245-253. [2]. Suzuki S, et, al. Development of a field kit for use by non-scientists for chemical tracking using 5-(4-nitrophenyl)-2,4-pentadien-1-al. Forensic Sci Int. 2013 May 10;228(1-3):e25-7. [3]. Lee YH, et, al. Determination of carbohydrates by high-performance capillary electrophoresis with indirect absorbance detection. J Chromatogr B Biomed Appl. 1996 May 31;681(1):87-97.

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