

Product Data Sheet

Product Name: PEG diamine

Cat. No.: GC52107

Chemical Properties

Cas. No. 24991-53-5

SMILES NCCOCCOCCN

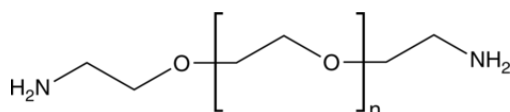
Formula (C₂H₄O)_nC₄H₁₂N₂O M.Wt 0

Solubility DMF: 33 mg/ml, DMSO: 33 mg/ml, Ethanol: 33 mg/ml, PBS (pH 7.2): 5 mg/ml Storage -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C 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



Background

PEG diamine is a PEGylated building block.^{1,2} It has been used as a linker to conjugate folic acid to 1,2-distearoyl-*rac*-glycero-PE (1,2-DSPE) as a component in the formation of doxorubicin-containing liposomes with anticancer activity.¹ PEG diamine has also been conjugated to oleanolic acid, which improves oleanolic acid-induced inhibition of cell proliferation by 677-fold in HepG2 hepatocellular carcinoma cells.²

1. Lee, R.J., and Low, P.S. Folate-mediated tumor cell targeting of liposome-entrapped doxorubicin in vitro. *Biochim. Biophys. Acta* 1233(2):134-144 (1995).
2. Jannus, F., Medina-O'Donnell, M., Rivas, F., et al. A diamine-PEGylated oleanolic acid derivative induced efficient apoptosis through a death receptor and mitochondrial apoptotic pathway in HepG2 human hepatoma cells. *Biomolecules* 10(10):1375 (2020).

Caution: Product has not been fully validated for medical applications. For research use only.

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