

trans-Stilbene

Chemical Properties

CAS No. :	103-30-0
Formula:	C ₁₄ H ₁₂
Molecular Weight:	180.25
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	trans-Stilbene (1,2-Diphenylethylene (trans)) is a natural product used in the manufacture of dye lasers, optical brighteners, and non-steroidal synthetic estrogens.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 8 mg/mL (44.38 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 0.5 mg/mL (2.77 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	5.5479 mL	27.7393 mL	55.4785 mL
5 mM	1.1096 mL	5.5479 mL	11.0957 mL
10 mM	0.5548 mL	2.7739 mL	5.5479 mL
50 mM	0.111 mL	0.5548 mL	1.1096 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

Julia López-Hernández, et al. Trans-Stilbenes in Commercial Grape Juices:Quantification Using HPLC Approaches. Int J Mol Sci. 2016 Oct 24;17(10):1769.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481