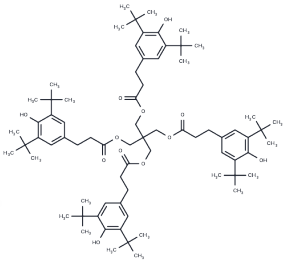
Data Sheet (Cat.No.T20076)

TargetMol

Irganox 1010

Chemical Properties



CAS No. : 6683-19-8

Formula: C73H108O12

Molecular Weight: 1177.63

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	Irganox 1010 (Dovernox 10) is an agent of antioxidant.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 123.75 mg/mL (105.08 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 10 mg/mL (8.49 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (8.49 mM),Suspension. 10% DMSO+90% Corn Oil: 5 mg/mL (4.25 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.8492 mL	4.2458 mL	8.4916 mL
5 mM	0.1698 mL	0.8492 mL	1.6983 mL
10 mM	0.0849 mL	0.4246 mL	0.8492 mL
50 mM	0.017 mL	0.0849 mL	0.1698 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

Tsuchiya T, Fukuhara K, Hata H, Ikarashi Y, Miyata N, Katoh F, Yamasaki H, Nakamura A. Studies on the tumor-promoting activity of additives in biomaterials: inhibition of metabolic cooperation by phenolic antioxidants involved in rubber materials. J Biomed Mater Res. 1995 Jan;29(1):121-6.

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