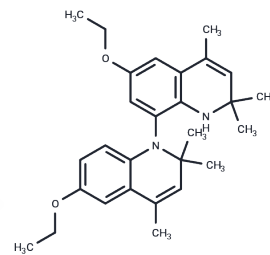


Ethoxyquin Dimer

Chemical Properties

CAS No. :	74681-77-9
Formula:	C ₂₈ H ₃₆ N ₂ O ₂
Molecular Weight:	432.608
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Ethoxyquin dimer is an antioxidant and metabolite of ethoxyquin .1 It prevents oxidation of polyunsaturated fatty acids in fish meal and fish oil. Dietary administration of ethoxyquin dimer (0.1, 0.3, and 0.5% w/w) induces microvesicular steatosis and hepatocyte necrosis, as well as increases liver levels of oxidized glutathione and total lipids in mice.2
Targets(IC50)	Others,Nrf2,Drug Metabolite,Orphan Receptor

Solubility Information

Solubility	Ethyl Acetate: Slightly soluble Chloroform: Slightly soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3116 mL	11.5578 mL	23.1155 mL
5 mM	0.4623 mL	2.3116 mL	4.6231 mL
10 mM	0.2312 mL	1.1558 mL	2.3116 mL
50 mM	0.0462 mL	0.2312 mL	0.4623 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

Koning, A.J. A new method for measuring efficacies of antioxidants in fish meal. *Int. J. Food Prop.* 1(3), 255-261 (2009).

Bernhard, A., Rasinger, J.D., Wisl?ff, H., et al. Subchronic dietary exposure to ethoxyquin dimer induces microvesicular steatosis in male BALB/c mice. *Food Chem. Toxicol.* 118, 608-625 (2018).

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