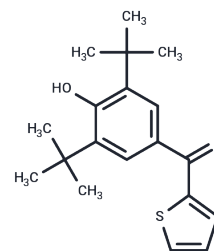


Prifelone

Chemical Properties

CAS No. :	69425-13-4
Formula:	C ₁₉ H ₂₄ O ₂ S
Molecular Weight:	316.46
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	Prifelone (R 830) is a non-steroidal anti-inflammatory compound with antioxidant activity.
Targets(IC50)	Antioxidant, COX
In vitro	R-830 inhibited guinea pig lung lipoxygenase in a concentration-related manner. The approximate IC ₅₀ for R-830 is 2×10^{-5} M.[1] R-830 produced inhibition of peanut oil auto-oxidation at concentrations of 0.5%. [1]
In vivo	R-830 (0.3-20 mg/kg), a di-tert-butylphenol for its efficacy in reducing the pre-existing swelling of the inflamed hind paws and promoting body weight gain in dose-response effects was obtained.[1]

Solubility Information

Solubility	DMSO: 55 mg/mL (173.8 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.160 mL	15.7998 mL	31.5996 mL
5 mM	0.632 mL	3.160 mL	6.3199 mL
10 mM	0.316 mL	1.580 mL	3.160 mL
50 mM	0.0632 mL	0.316 mL	0.632 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

Moore GG, et al. 2,6-Di-tert-butyl-4-(2'-thenoyl)phenol(R-830): a novel nonsteroidal anti-inflammatory agent with antioxidant properties. Agents Actions. 1982;12(5-6):674-683.

Braun S, et al. Synthesis and In Vitro Biological Evaluation of p-Carborane-Based Di-tert-butylphenol Analogs. Molecules. 2023;28(11):4547.

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