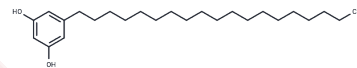


5-Nonadecylresorcinol

Chemical Properties

CAS No. :	35176-46-6
Formula:	C ₂₅ H ₄₄ O ₂
Molecular Weight:	376.62
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	5-Nonadecylresorcinol is a natural alkylresorcinol isolated from wheat bran. This product exhibits significant anti-degranulation activity in the RBL-2H3 cell model, effectively inhibiting DNP-BSA-induced release of β -hexosaminidase. It shows no cytotoxicity at experimental concentrations and serves as a pharmacological tool for researching natural anti-allergic agents and their mechanisms in mast-cell-like cells.
Targets(IC50)	glycosidase
In vitro	In cell-based assays, 5-Nonadecylresorcinol demonstrates dose-dependent inhibition of antigen-stimulated degranulation in RBL-2H3 cells; the compound significantly reduces the secretion of β -hexosaminidase, a key marker of allergic response, while maintaining high cell viability as measured by MTT assays [1].

Solubility Information

Solubility	DMSO: 80 mg/mL (212.42 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	2.6552 mL	13.276 mL	26.552 mL
5 mM	0.531 mL	2.6552 mL	5.3104 mL
10 mM	0.2655 mL	1.3276 mL	2.6552 mL
50 mM	0.0531 mL	0.2655 mL	0.531 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

Seong Su Hong, et al. Inhibitors of antigen-induced degranulation of RBL-2H3 cells isolated from wheat bran. Journal of the Korean Society for Applied Biological Chemistry volume 55, pages69-74 (2012)

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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