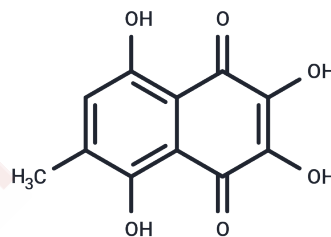


Methylspinazarin

Chemical Properties

CAS No. :	41768-12-1
Formula:	C ₁₁ H ₈ O ₆
Molecular Weight:	236.18
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	Methylspinazarin is a naphthoquinone bacterial metabolite that has been found in <i>Streptomyces</i> and is an inhibitor of catechol O-methyltransferase (COMT; IC ₅₀ = 0.8 µg/ml). ¹ It is selective for COMT over tyrosine hydroxylase, DOPA decarboxylase, and dopamine-β-hydroxylase at 100 µg/ml. Methylspinazarin decreases blood pressure in spontaneously hypertensive rats when administered at a dose of 50 mg/kg.
Targets(IC50)	Others,Transferase

Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.2341 mL	21.1703 mL	42.3406 mL
5 mM	0.8468 mL	4.2341 mL	8.4681 mL
10 mM	0.4234 mL	2.117 mL	4.2341 mL
50 mM	0.0847 mL	0.4234 mL	0.8468 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

Chimura, H., Sawa, T., Takita, T., et al. Methylspinazarin and dihydromethylspinazarin, catechol-O-methyl transferase inhibitors produced by *Streptomyces*. *J. Antibiot.* 26(2), 112-114 (1973).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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