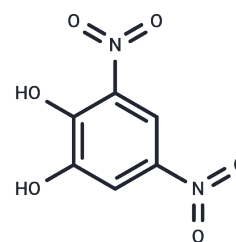


3,5-Dinitrocatechol

Chemical Properties

CAS No. :	7659-29-2
Formula:	C ₆ H ₄ N ₂ O ₆
Molecular Weight:	200.11
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	OR-486 is an inhibitor of catechol-O-methyl-transferase(COMT) and can be used to prepare the molybdenum (VI)- 3,5-Dinitrocatechol complex.
Targets(IC50)	Transferase
In vitro	OR-486 is highly effective (IC ₅₀ = 12 nM) and selective in inhibiting COMT activity in vitro[3].
In vivo	In mouse trachea (β ₁ -AR dominant), significant suppression of ISO-induced relaxation was observed with the addition of OR-486. In GP trachea, in the presence of clorgiline plus OR-486, both normetadrenaline (NMA) and metadrenaline (MA) (10-4 M) significantly suppressed ISO-induced relaxation[1].

Solubility Information

Solubility	Ethanol: < 20.01 mg/mL, DMSO: 50 mg/mL (249.86 mM), H ₂ O: 0.17 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.9973 mL	24.9863 mL	49.9725 mL
5 mM	0.9995 mL	4.9973 mL	9.9945 mL
10 mM	0.4997 mL	2.4986 mL	4.9973 mL
50 mM	0.0999 mL	0.4997 mL	0.9995 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.

Reference

Yamaki F, et, al. Effects of Catecholamine Metabolites on Beta-Adrenoceptor-Mediated Relaxation of Smooth Muscle: Evaluation in Mouse and Guinea-Pig Trachea and Rat Aorta. Biol Pharm Bull. 2020;43(3):493-502.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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