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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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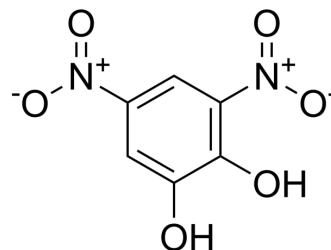
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3,5-Dinitro catechol

Cat. No.:	HY-100959		
CAS No.:	7659-29-2		
Molecular Formula:	C ₆ H ₄ N ₂ O ₆		
Molecular Weight:	200.11		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 125 mg/mL (624.66 mM)
 H₂O : 1 mg/mL (5.00 mM; ultrasonic and warming and heat to 60°C)
 * "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

3,5-Dinitro catechol (OR-486) is a potent catechol-O-methyltransferase inhibitor, with an IC₅₀ of 12 nM. 3,5-Dinitro catechol can be used in the preparation of the molybdenum (VI)- 3,5-Dinitro catechol complex^{[1][2][3]}.

REFERENCES

- [1]. Nissinen E, et, al. Inhibition of catechol-O-methyltransferase activity by two novel disubstituted catechols in the rat. *Eur J Pharmacol.* 1988 Aug 24;153(2-3):263-9.
- [2]. 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.
- [3]. Stojnova K, et, al. Study on the Complex Equilibria of Molybdenum(VI) with 3,5-Dinitro catechol and Ditetrazolium Salt. *Acta Chim Slov.* 2016;63(3):654-60.

Caution: Product has not been fully validated for medical applications. For research use only.

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