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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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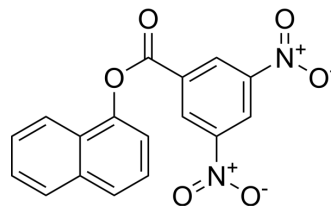
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1-Naphthyl 3,5-dinitrobenzoate

Cat. No.:	HY-125975		
CAS No.:	93261-39-3		
Molecular Formula:	C ₁₇ H ₁₀ N ₂ O ₆		
Molecular Weight:	338.27		
Target:	Lipoxygenase		
Pathway:	Metabolic Enzyme/Protease		
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 : 10 mg/mL (29.56 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.9562 mL	14.7811 mL	29.5622 mL
5 mM	0.5912 mL	2.9562 mL	5.9124 mL
10 mM	0.2956 mL	1.4781 mL	2.9562 mL

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

BIOLOGICAL ACTIVITY

Description

1-Naphthyl 3,5-dinitrobenzoate is a potent 5-lipoxygenase inhibitor with IC₅₀ values of 1.04 μM and 3.6 μM for 5-LOX and mPGES-1, respectively. 1-Naphthyl 3,5-dinitrobenzoate has strong inhibition activity in the human whole blood (HWB) assay with an IC₅₀ value of 8.6 μM. 1-Naphthyl 3,5-dinitrobenzoate can be used in research of inflammation^[1].

REFERENCES

[1]. Wu Y, et, al. Dynamic modeling of human 5-lipoxygenase-inhibitor interactions helps to discover novel inhibitors. J Med Chem. 2012 Mar 22;55(6):2597-605.

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

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