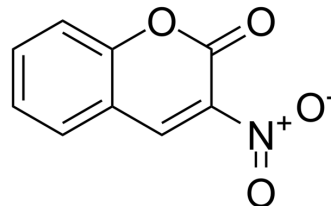


## 3-Nitrocoumarin

Cat. No.:	HY-111919		
CAS No.:	28448-04-6		
Molecular Formula:	C <sub>9</sub> H <sub>5</sub> NO <sub>4</sub>		
Molecular Weight:	191.14		
Target:	Phospholipase		
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 : ≥ 100 mg/mL (523.18 mM)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	5.2318 mL	26.1588 mL	52.3177 mL
	5 mM	1.0464 mL	5.2318 mL	10.4635 mL
	10 mM	0.5232 mL	2.6159 mL	5.2318 mL

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

#### In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil  
 Solubility: 2.5 mg/mL (13.08 mM); Clear solution; Need ultrasonic

### BIOLOGICAL ACTIVITY

#### Description

3-Nitrocoumarin (3-NC) is a potent and selective Phospholipase C-γ (PLC-γ) inhibitor<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

PLC-γ<sup>[1]</sup>.

### CUSTOMER VALIDATION

- Theranostics. 2021 Mar 5;11(10):5045-5060.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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## REFERENCES

[1]. Ward PD, et al. Phospholipase C-gamma modulates epithelial tight junction permeability through hyperphosphorylation of tight junction proteins. J Biol Chem. 2002 Sep 20;277(38):35760-5.

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

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