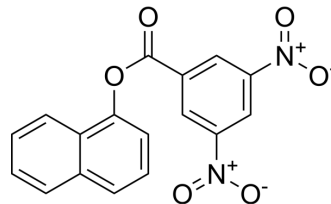


## 1-Naphthyl 3,5-dinitrobenzoate

Cat. No.:	HY-125975
CAS No.:	93261-39-3
Molecular Formula:	C <sub>17</sub> H <sub>10</sub> N <sub>2</sub> O <sub>6</sub>
Molecular Weight:	338.27
Target:	Lipoxygenase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

1-Naphthyl 3,5-dinitrobenzoate is a potent 5-lipoxygenase inhibitor with IC<sub>50</sub> 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 IC<sub>50</sub> value of 8.6 μM. 1-Naphthyl 3,5-dinitrobenzoate can be used in research of inflammation<sup>[1]</sup>.

### 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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