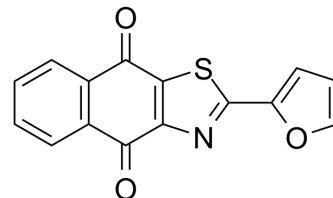


## INO5042

Cat. No.:	HY-U00094
CAS No.:	14782-19-5
Molecular Formula:	C <sub>15</sub> H <sub>7</sub> NO <sub>3</sub> S
Molecular Weight:	281.29
Target:	Others
Pathway:	Others
Storage:	<div>Powder</div> <div>-20°C 3 years</div> <div>4°C 2 years</div> <div>In solvent</div> <div>-80°C 2 years</div> <div>-20°C 1 year</div>



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 2 mg/mL (7.11 mM; ultrasonic and adjust pH to 3 with HCl)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		3.5550 mL	17.7752 mL	35.5505 mL
	5 mM		0.7110 mL	3.5550 mL	7.1101 mL
	10 mM		---	---	---

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

### BIOLOGICAL ACTIVITY

#### Description

INO5042, a thiazole fused 1,4-naphthoquinone compound, and exhibits anti-inflammation activity<sup>[1][2]</sup>.

#### In Vitro

When INO5042 is added to endothelial cells, a shift of velocities is observed towards fast speeds (from 3-5 to 7-11 microm/sec). The same results is significantly found when neutrophils, alone or along with endothelium, has been submitted to INO5042, the number of stickers and rollers being reduced as well<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Renard M, et al. Induced changes of leukocyte slow rolling in an in flow pharmacological model of adhesion to endothelial cells. Biorheology. 2003;40(1-3):173-8.

[2]. Fosse C, et, al. Parameters and mechanistic studies on the oxidative ring cleavage of synthetic heterocyclic naphthoquinones by Streptomyces strains. Appl Microbiol Biotechnol. 2004 Sep;65(4):446-56.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA