Proteins

Product Data Sheet

NP-313

Cat. No.: HY-129496 CAS No.: 5397-78-4 Molecular Formula: $C_{12}H_8CINO_3$ Molecular Weight: 249.65 Target: Thrombin

Pathway: Metabolic Enzyme/Protease Storage: Powder -20°C 3 years

> In solvent -80°C 6 months

-20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO: 25 mg/mL (100.14 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	4.0056 mL	20.0280 mL	40.0561 mL
	5 mM	0.8011 mL	4.0056 mL	8.0112 mL
	10 mM	0.4006 mL	2.0028 mL	4.0056 mL

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

BIOLOGICAL ACTIVITY

Description	NP-313 is a potent antithrombotic agent that inhibits platelet aggregation and activation. NP-313 has dual inhibition of thromboxane A 2 synthesis and selective inhibition of SOCC-mediated Ca^{2+} inward flow ^[1] .
In Vitro	NP-313 (0-80 μ M) inhibits platelet aggregation in a dose-dependent manner. The maximum inhibition of platelet aggregation induced by thrombin and A23187 was approximately 80% and 60%, respectively ^[1] . NP-313 (0-8 μ M) concentration-dependently inhibited P-selectin expression and thromboxane B 2 (TXB2) production in human platelets induced by collagen or thrombin. Also, NP-313 inhibited COX-1 and TXA 2 synthase with the IC $_{50}$ values of 1.5 and 3.9 μ M, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	NP-313 (i.v., 4-16 µg/g) significantly prolongs occlusion time (TTO), prolongs bleeding time and inhibits platelet aggregation induced by collagen (10 µg/mL) in male ICR mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

1]. Heng-Lan Kuo, et al. NP-313 calcium entry. Br J Pharmacol.		-naphthoquinone, a novel antith	rombotic agent with dual inhibition of throm	boxane A(2) synthesis and
	Caution: Product has no	t been fully validated for me	dical applications. For research use only	<i>J</i> .
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