

Product Data Sheet

Product Name: NP-313
Cat. No.: GC70626

Chemical Properties

Cas. No. 5397-78-4

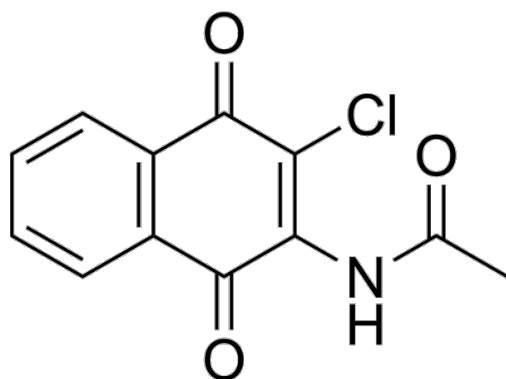
Formula $C_{12}H_8ClNO_3$ M.Wt 249.65

Solubility DMSO : 25 mg/mL (100.14 mM);
Need ultrasonic; Hygroscopic DMSO
has a significant impact on the
solubility of product, please use
newly opened DMSO)

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

NP-313 is a potent antithrombotic agent that inhibits platelet aggregation and activation. NP-313 has dual inhibition of thromboxane A₂ synthesis and selective inhibition of SOCC-mediated Ca²⁺ inward flow.

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

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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 B₂ (TXB₂) production in human platelets induced by collagen or thrombin. Also, NP-313 inhibited COX-1 and TXA₂ synthase with the IC₅₀ values of 1.5 and 3.9 μ M, respectively^[1].

NP-313 (i.v., 4-16 μ g/g) significantly prolongs occlusion time (TTO), prolongs bleeding time and inhibits platelet aggregation induced by collagen (10 μ g/mL) in male ICR mice^[1].

References:

[1]. Heng-Lan Kuo, et al. NP-313, 2-acetylamino-3-chloro-1,4-naphthoquinone, a novel antithrombotic agent with dual inhibition of thromboxane A₂ synthesis and calcium entry. Br J Pharmacol. 2011 Apr;162(8):1871-83.

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