

Product Data Sheet

Product Name: Satigrel
Cat. No.: GC72853

Chemical Properties

Cas. No. 111753-73-2

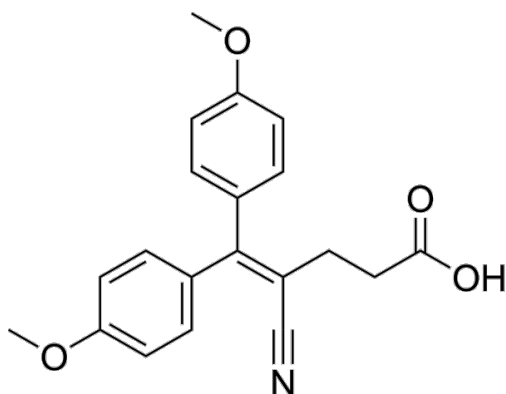
Formula $C_{20}H_{19}NO_4$ M.Wt 337.37

Solubility DMSO : 100 mg/mL (296.41 mM; Storage -20°C
Need ultrasonic)

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

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

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Satigrel (E5510) is a potent inhibitor of platelet aggregation. Satigrel inhibits collagen- and arachidonic acid-induced platelet aggregation through preventing thromboxane A₂ synthesis by selective inhibition of the target enzyme, PGHS1, which exists in platelets. Satigrel inhibits PGHS1 (IC₅₀: 0.081 μ M) and PGHS2 (IC₅₀: 5.9 μ M). Satigrel is against Type III PDE, Type V and Type II (IC₅₀: 15.7 μ M, 39.8 μ M and 62.4 μ M, respectively).

References:

[1]. N Nagakura, et al. Mechanisms of satigrel (E5510), a new anti-platelet drug, in inhibiting human platelet aggregation. Selectivity and potency against prostaglandin H synthases isozyme activities and phosphodiesterase isoform activities. Biol Pharm Bull. 1996 Jun;19(6):828-33.

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