

Product Data Sheet

Product Name: EGFR/COX-2-IN-3

Cat. No.: GC79459

Chemical Properties

Cas. No. 3121638-16-9

Formula $C_{22}H_{25}N_5O$ M.Wt 375.47

Solubility DMSO: 25 mg/mL (66.58 mM; Need ultrasonic) Storage Store at -20°C

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.

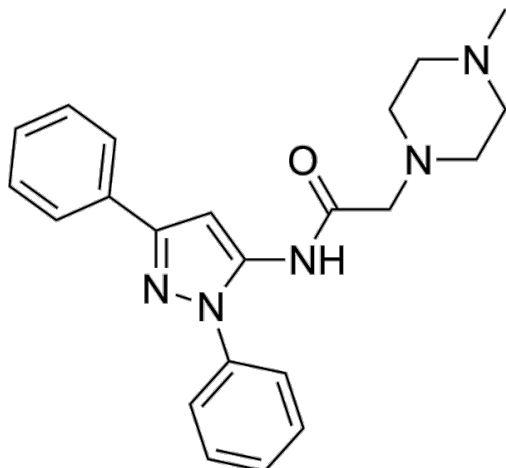
Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Structure



Background

EGFR/COX-2-IN-3 is a selective EGFR / COX-2 dual inhibitor with IC₅₀ values of 0.098 μ M and 0.05 μ M, respectively. EGFR/COX-2-IN-3 is predicted to have oral activity and blood-brain barrier permeability. EGFR/COX-2-IN-3 exhibits both potent analgesic activity and anti-glioblastoma effects. EGFR/COX-2-IN-3 can be used in the research of tumors such as glioblastoma [1].

In Vivo, EGFR/COX-2-IN-3 exhibits analgesic activity in the mouse hot-plate test, with an AUC of 37.83, which is superior to that of Celecoxib [1].

In Vitro, EGFR/COX-2-IN-3 (Compound 10a) exhibits potent cytotoxicity against U-251 and SNB-75, with IC₅₀ values of 8.8 μ M and 2.6 μ M, respectively [1].

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References:

[1]. Farag KO, et al. Pyrazole derivatives as dual COX-2/EGFR inhibitors with anticancer potential: Optimization of difenamizole Analogs. Bioorg Chem. 2026;170:109444.

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