

Product Data Sheet

Product Name: Teplinovivint

Cat. No.: GC62394

Chemical Properties

Cas. No. 1428064-91-8

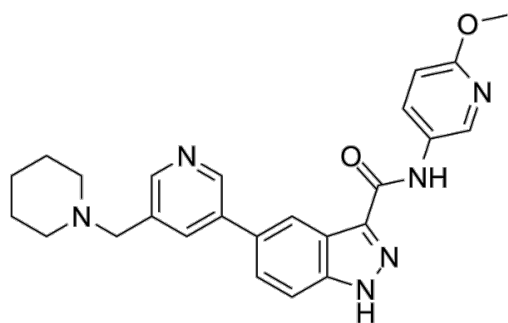
Formula $C_{25}H_{26}N_6O_2$ M.Wt 442.51

Solubility DMSO : 83.33 mg/mL (188.31 mM; Storage Store at -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

Teplinovivint is a potent wnt/ β -catenin signaling pathway inhibitor. Teplinovivint has anti-inflammatory activity and has the potential for tendinopathy research[1].

Teplinovivint (compound 175; 0.0003-10 μ M) inhibits Wnt/ β -catenin activity in human colorectal

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

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cancecell line (SW480) in a dose-dependent manner ($EC_{50}=152.9$ nM)[1]. Teplinovivint inhibits SW480 cells ($EC_{50}=25$ nM) and primary human mesenchymal stem cells (hMSCs; $EC_{50}=10.377$ μ M)[1]. Teplinovivint (5.8, 10.8, 21.7, 41.7, 83.3, 166.6, 333.3, 750 nM) induced the expression of SCXA, TenacinC and Tenomodulin, in a dose-dependent manner with an EC_{50} between 139-189 nM[1].

Teplinovivint (compound 175; 10 mg/ml; once daily for 21 days via topical application) causes amelioration of inflammation as well as tendon degeneration. Teplinovivint results in a decrease of aninflammatory plasma biomarker, KC/GRO in the Collagenase-induced Tendon Injury Model[1]. Teplinovivint (1 mg/ml with 1% BA) has a T_{max} of 1 hours in plasma[1].

[1]. Vishal DESHMUKH, et al. Methods of using indazole-3-carboxamides and their use as wnt/b-catenin signaling pathway inhibitors. WO2018075858A1.

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