

Product Data Sheet

Product Name: Danicopan

Cat. No.: GC38162

Chemical Properties

Cas. No. 1903768-17-1

SMILES O=C([C@H]1N(C(CN2N=C(C(C)=O)C3=C2C=CC(C4=CN=C(C)N=C4)=C3)=O)[C@H](F)C1)NC5=NC(Br)=CC=C5

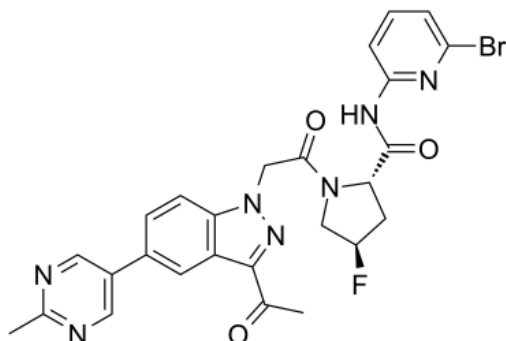
Formula $C_{26}H_{23}BrFN_7O_3$ M.Wt 580.41

Solubility DMSO: 260 mg/mL (447.96 mM) 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.

Structure



Background

Danicopan (ACH-4471), a selective and orally active small-molecule factor D inhibitor, shows high binding affinity to human Factor D with K_d value of 0.54 nM. Danicopan (ACH-4471) inhibits alternative pathway of complement (APC) activity, has potential to block the alternative pathway of complement in paroxysmal nocturnal hemoglobinuria (PNH) and atypical hemolytic uremic syndrome (aHUS)[1].

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

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Danicopan (ACH-4471) inhibits the proteolytic activity of purified Factor D against its natural substrate Factor B in complex with C3b, blocking production of Bb fragment in a dose-dependent manner with an IC₅₀ value of 0.015 μ M [1]. Danicopan (ACH-4471) potently inhibits hemolysis with IC₅₀ values ranging from 0.0040 μ M to 0.027 μ M (IC₉₀ values from 0.015 μ M to 0.11 μ M) [1].

[1]. Yuan X, et al. Small-molecule factor D inhibitors selectively block the alternative pathway of complement in paroxysmal nocturnal hemoglobinuria and atypical hemolytic uremic syndrome. *Haematologica*. 2017 Mar;102(3):466-475.

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