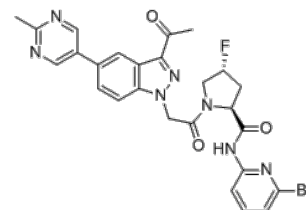


Product Name : Danicopan
Cat. No. : PC-35445
CAS No. : 1903768-17-1
Molecular Formula : C₂₆H₂₃BrFN₇O₃
Molecular Weight : 580.418
Target : Complement System
Solubility : 10 mM in DMSO



Biological Activity

Danicopan (ACH-4471, ALXN2040) is a potent, selective, reversible small-molecule inhibitor complement **factor D** with K_d of 0.54 nM.

Danicopan (ACH-4471, ALXN2040) inhibits the proteolytic activity of purified Factor D against substrate Factor B in complex with C3b, blocking production of Bb fragment IC₅₀ of 15 nM.

Danicopan prevented new AP C3 convertase formation, inhibited both AP-mediated hemolysis and C3 fragment deposition on red blood cells from PNH patients.

Danicopan is being developed for the treatment of PNH and other complement-mediated diseases.

Danicopan specifically targets the control point of the complement cascade amplification loop, blocking C3 convertase formation and, significantly reducing production of C3 cleavage products (also known as C3 fragments) and downstream MAC formation.

References

- Yuan X, et al. *Haematologica*. 2017 Mar;102(3):466-475.
- Wiles JA, et al. *Curr Med Chem*. 2020;27(25):4165-4180.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com