

Product Data Sheet

Product Name: Z223-2027

Cat. No.: GC81488

Chemical Properties

Cas. No. 1359344-58-3

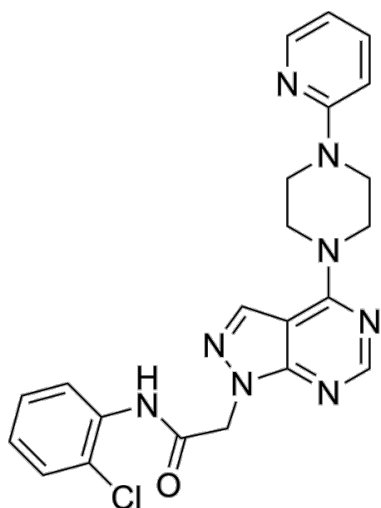
Formula $C_{22}H_{21}ClN_8O$ M.Wt 448.91

Solubility DMSO: 5 mg/mL (11.14 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.

Structure



Background

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

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Z223-2027 is a FcRn inhibitor. Z223-2027 competitively blocks the binding of immunoglobulin G (IgG) to FcRn. Z223-2027 can be used in the research of IgG-mediated autoimmune diseases [1].

In Vitro, Z223-2027 acts as an FcRn antagonist, exerting its function by competitively blocking the binding of IgG to immobilized human FcRn^[1]. Z223-2027 stably binds to human FcRn (PDB: 5WHK) with a binding free energy of -27.8 kcal/mol, and interacts with the key residues D130 and W127, which supports its mechanism as an FcRn antagonist by blocking IgG binding^[1].

References:

[1]. Wu G, et al. Virtual Screening Combined with Phase Transition-FRET for Discovery of Small-Molecule FcRn Antagonists. Anal Chem. 2025;97(20):10661-10670.

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