Product Datasheet

Flizasertib

Catalog No. **BP-06882** · CAS **2268739-68-8** · Form **free base** · Physical state **solid** · Color **White to off-white** · Version **1.0** · Revision **2026-11-13**

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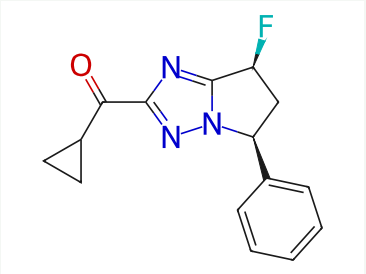
Target	Research area
RIP kinase; Interleukin Related	**Cardiovascular Disease; Inflammation/Immunology; Endocrinology**

Molecular formula	**$C_{15}H_{14}FN_3O$**
Molecular weight	**271.2896**

STRUCTURE



DESCRIPTION

Flizasertib (GDC-8264) is an orally active, reversible and selective RIP1 inhibitor with Ki app values of 0.00071 μM and 0.0013 μM for human and cynomolgus monkey RIP1 kinase, respectively. Flizasertib blocks RIP1 autophosphorylation but does not affect RIP1 protein stability. Flizasertib inhibits pro-inflammatory cytokines (CCL3, CCL4, and IL-1β) production. Flizasertib results in inhibition of colitis and ileitis. Flizasertib can be used in the research of cardiac surgery-associated acute kidney injury .

BIOLOGICAL ACTIVITY

In Vitro

Flizasertib (0.26 nM to 10,000 nM) potently inhibits human and cynomolgus monkey RIP1 kinase activity with Kiapp values of 0.00071 μM and 0.0013 μM, respectively[1].

Flizasertib exhibits high selectivity for RIP1, with a Kd of 0.0031 μM[1].

In Vivo

GDC-8264 (1-50 mg/kg; p.o.; twice daily; 5 days) provides dose-dependent protection against NEMO deletion-induced colitis and ileitis in mice[1].

SOLUBILITY

soluble in DMSO

REFERENCES

[1]. Patel S, et al. Discovery of Clinical Candidate GDC-8264, a Novel, Potent and Selective RIP1 Inhibitor for Amelioration of Tissue Damage and the Treatment of Inflammatory Diseases. J Med Chem. 2025;68(21):23050-23077.

[2]. Jones NS, et al. A phase I, randomized, ascending-dose study to assess safety, pharmacokinetics, and activity of GDC-8264, a RIP1 inhibitor, in healthy volunteers. Clin Transl Sci. 2023;16(10):1997-2009.

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