

Data Sheet

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Product Name : ZED1227

Cat. No. : PC-38770

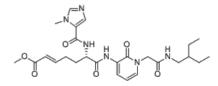
CAS No. : 1542132-88-6

Molecular Formula : C₂₆H₃₆N₆O₆

Molecular Weight : 528.610

Target : Glutaminase

Solubility : 10 mM in DMSO



Biological Activity

Vilagletistat (ZED1227, ZED-1227) is a potent, selective, covalent, and orally active **transglutaminase 2 (TGase 2, TG2)** inhibitor with IC50 of 45 nM.

ZED1227 selectively binds to the active state of TG2, forming a stable covalent bond with the cysteine in TG2 catalytic center

ZED1227 blocks inflammation-induced TG2 expression and activity, inhibits TG2 in the small intestinal mucosa in vitro, with no sginificant cytotoxic activity.

ZED1227 reduces the activity of intestinal TG2 induced by polyinosinic:polycytidylic acid (40 mg/kg) to normal control levels and subdues intestinal inflammation in mice.

ZED1227 shows potential for treatment and research of celiac disease.

References

Büchold C, et al. *Cells*. 2022 May 17;11(10):1667.

Schuppan D, et al. **N Engl J Med.** 2021 Jul 1;385(1):35-45.

Manu Encalada, et al. *Gastroenterology*. 154(6):S-490.

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

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