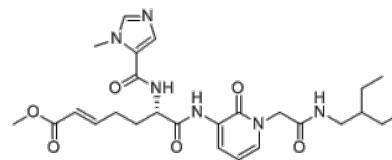


Product Name : ZED1227
Cat. No. : PC-38770
CAS No. : 1542132-88-6
Molecular Formula : C₂₆H₃₆N₆O₆
Molecular Weight : 528.610
Target : Glutaminase
Solubility : 10 mM in DMSO



Biological Activity

ZED1227 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 significant 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

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

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

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