

Larazotide acetate

Catalog No: tcsc8047



Available Sizes

Size: 1mg

Size: 5mg

Size: 10mg

Size: 25mg



Specifications

CAS No:

881851-50-9

Formula:

$C_{34}H_{59}N_9O_{12}$

Pathway:

Others

Target:

Others

Purity / Grade:

>98%

Solubility:

DMSO : 3.2 mg/mL (4.07 mM; Need ultrasonic and warming); H₂O : ≥ 20 mg/mL (25.45 mM)

Observed Molecular Weight:

785.89

Product Description

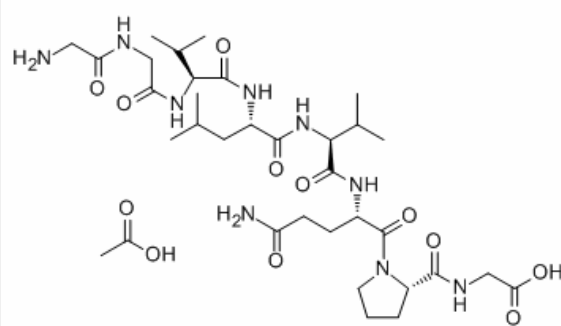
Larazotide acetate is a synthetic peptide that functions as a tight junction regulator and reverses leaky junctions to their normally

closed state.

IC50 & Target: Paracellular permeability^[1]

In Vitro: Larazotide acetate inhibits the redistribution and rearrangement of zonula occludens-1 (ZO-1) and actin caused by AT-1002 and gliadin fragments in Caco-2 and IEC6 cells. Larazotide acetate inhibits the AT-1002-induced TEER reduction and TJ opening in Caco-2 cells. Larazotide acetate inhibits the translocation of a gliadin 13-mer peptide, which has been implicated in celiac disease, across Caco-2 cell monolayers. Further, apically applied Larazotide acetate inhibits the increase in TJ permeability elicited by basolaterally applied cytokines^[1].

In Vivo: When tested *in vivo* in gliadin-sensitized HLA-HCD4/DQ8 double transgenic mice, larazotide acetate inhibits gliadin-induced macrophage accumulation in the intestine and preserved normal tight junction structure^[1].



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