

## Larazotide acetate

## Chemical Properties

CAS No. : 881851-50-9

Formula: C34H59N9O12

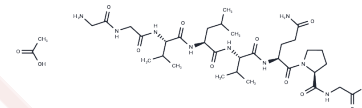
Molecular Weight: 785.89

Storage:

Keep away from moisture, Keep away from direct sunlight, Store at low temperature

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Larazotide acetate is a synthetic peptide. It functions as a tight junction regulator and reverses leaky junctions to their normally closed state.
Targets(IC50)	Gap Junction Protein
In vitro	Larazotide acetate inhibits the AT-1002-induced TEER reduction and TJ opening in Caco-2 cells and it also 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 translocation of a gliadin 13-mer peptide, which has been implicated in celiac disease, across Caco-2 cell monolayers. Apically applied Larazotide acetate inhibits the increase in TJ permeability elicited by basolaterally applied cytokines.
In vivo	Larazotide acetate inhibits gliadin-induced macrophage accumulation in the intestine and preserved normal tight junction structure when tested in vivo in gliadin-sensitized HLA-HCD4/DQ8 double transgenic mice.

## Solubility Information

Solubility	H2O: 16.67 mg/mL (21.21 mM), Sonication is recommended. DMSO: 2.3 mg/mL (2.93 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	1.2724 mL	6.3622 mL	12.7244 mL
5 mM	0.2545 mL	1.2724 mL	2.5449 mL
10 mM	0.1272 mL	0.6362 mL	1.2724 mL
50 mM	0.0254 mL	0.1272 mL	0.2545 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Gopalakrishnan S, et al. Larazotide acetate regulates epithelial tight junctions in vitro and in vivo. *Peptides*. 2012 May;35(1):86-94.

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