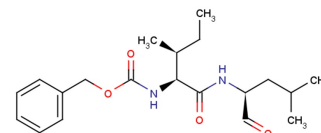


## Z-Ile-Leu-aldehyde

## Chemical Properties

CAS No.:	161710-10-7
Formula:	C <sub>20</sub> H <sub>30</sub> N <sub>2</sub> O <sub>4</sub>
Molecular Weight:	362.46
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	Z-Ile-Leu-aldehyde is an effective and competitive peptide aldehyde inhibitor of $\gamma$ -secretase and notch.
Targets(IC <sub>50</sub> )	Others: None
In vitro	Z-Ile-Leu-aldehyde causes apoptosis of murine MOPC315.BM myeloma cells with high Notch activity. Z-Ile-Leu-aldehyde obviously downregulates Th17-associated cytokine levels in murine Th17 in vitro polarization assays [1][2].
In vivo	In MM cells and possibly in osteoclasts, Z-Ile-Leu-aldehyde (10 mg/kg, Intraperitoneally either for 14 days) controls myeloma bone disease mainly by targeting Notch in their microenvironment [2].

## Solubility Information

Solubility	DMSO: 41 mg/mL (113.12 mM) ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.759 mL	13.795 mL	27.589 mL
5 mM	0.552 mL	2.759 mL	5.518 mL
10 mM	0.276 mL	1.379 mL	2.759 mL
50 mM	0.055 mL	0.276 mL	0.552 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

### Reference

1. Reem Suleiman, et al. The Role Of Notch In Th17 Differentiation. University of Massachusetts Amherst. 9-2013.
2. Schwarzer R, et al. Notch pathway inhibition controls myeloma bone disease in the murine MOPC315.BM model. Blood Cancer J. 2014 Jun 13;4:e217.

Inhibitors · Natural Compounds · Compound Libraries

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