Z-Ile-Leu-aldehyde

Cat. No.:	HY-12465		
CAS No.:	161710-10-	7	
Molecular Formula:	$C_{20}H_{30}N_{2}O_{4}$		
Molecular Weight:	362.46		
Target:	Notch; γ-se	cretase; A	Apoptosis
Pathway:	Neuronal S	ignaling;	Stem Cell/Wnt; Apoptosis
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO:≥4	1 mg/mL	(113.12 m	M)
---------	---------	-----------	----

* "≥" means soluble, but saturation unknown.

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.7589 mL	13.7946 mL	27.5893 mL
	5 mM	0.5518 mL	2.7589 mL	5.5179 mL
	10 mM	0.2759 mL	1.3795 mL	2.7589 mL

BIOLOGICAL ACTIV		
DIOLOGICALACITY		
Description	Z-Ile-Leu-aldehyde (Z-IL-	CHO) is a potent and competitive peptide aldehyde inhibitor of γ -secretase and notch ^{[1][2]} .
In Vitro	assays ^[1] . Z-Ile-Leu-aldehyde (GSI)	IO) significantly downregulates Th17-associated cytokine levels in murine Th17 in vitro polarization III) induces apoptosis of murine MOPC315.BM myeloma cells with high Notch activity ^[2] . In the securacy of these methods. They are for reference only.
	Cell Line:	CD4 ⁺ T cells from C57BL/6 mice.
	Concentration:	25 μΜ.
	Incubation Time:	24, 48, 72 hours.
	Result:	DownregulateD RORIX and IL-17 mRNA expression.

`0´

ö

Ó



	Cell Viability Assaysup>[[2]
	Cell Line:	MOPC315.BM cells.
	Concentration:	0, 12, 15 μΜ.
	Incubation Time:	24-48 h hours.
	Result:	Reduced viability and induced apoptosis in MOPC315.BM cells
n Vivo	targeting Notch in MM c	XII, 10 mg/kg, Intraperitoneally either for 14 days) controls myeloma bone disease mainly by ells and possibly in osteoclasts in their microenvironment ^[2] .
ı Vivo	targeting Notch in MM c	
n Vivo	targeting Notch in MM c	ells and possibly in osteoclasts in their microenvironment ^[2] .
n Vivo	targeting Notch in MM c MCE has not independe	ells and possibly in osteoclasts in their microenvironment ^[2] . ntly confirmed the accuracy of these methods. They are for reference only.
n Vivo	targeting Notch in MM c MCE has not independer Animal Model:	ells and possibly in osteoclasts in their microenvironment ^[2] . ntly confirmed the accuracy of these methods. They are for reference only. MOPC315.BM mouse model ^[2] .

CUSTOMER VALIDATION

• Front Mol Biosci. 2021 Oct 22;8:652443.

See more customer validations on www.MedChemExpress.com

REFERENCES

[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.

Caution: Product has not been fully validated for medical applications. For research use only.

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA