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DATASHEET

Z-Leu-Leu-Leu-B(OH)2 (MG-262)

Product overview

Name	Z-Leu-Leu-Leu-B(OH)2 (MG-262)
Cat No	HB4134
Alternative names	MG-262 | ZL3B | Z-LLL-B(OH)2
Biological action	Inhibitor
Purity	>95%
Description	Highly potent, selective, cell permeable proteasome inhibitor. More potent than MG-132.

Biological Data

Biological description	Highly potent, selective, reversible cell permeable proteasome inhibitor. More potent than MG-132. Inhibits chymotrypsin- and caspase-like peptidase activity of the proteasome. Also shows calpain and cathepsin inhibitor. Activates autophagy and induces apoptosis.

Solubility & Handling

Storage instructions	+4°C
Solubility overview	Soluble in DMSO
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	Z-Leu-Leu-Leu-B(OH)2
Molecular Weight	491.4
Molecular Formula	$C_{25}H_{42}BN_3O_6$
CAS Number	179324-22-2
InChiKey	MWKOOGAFELWOCD-FKBYEOEOSA-N
Appearance	Solid lyophilized powder

References

Antimalarial activity of the anticancer and proteasome inhibitor bortezomib and its analog ZL3B.

Reynolds JM et al (2007) BMC Clin Pharmacol. 23
PubMedID http://www.ncbi.nlm.nih.gov/pubm

Proteasome inhibition reduces proliferation, collagen expression, and inflammatory cytokine production in nasal mucosa and polyp fibroblasts.

Pujols L et al (2012) J Pharmacol Exp Ther 343(1)
PubMedID 22787116

Identification of the proteasome inhibitor MG262 as a potent ATP-dependent inhibitor of the Salmonella enterica serovar Typhimurium Lon protease.

Frase H et al (2006) Biochemistry 45(27)
PubMedID 16819825

Preventing proteostasis diseases by selective inhibition of a phosphatase regulatory subunit.

Das I et al (2015) Science 348(6231)
PubMedID 25859045