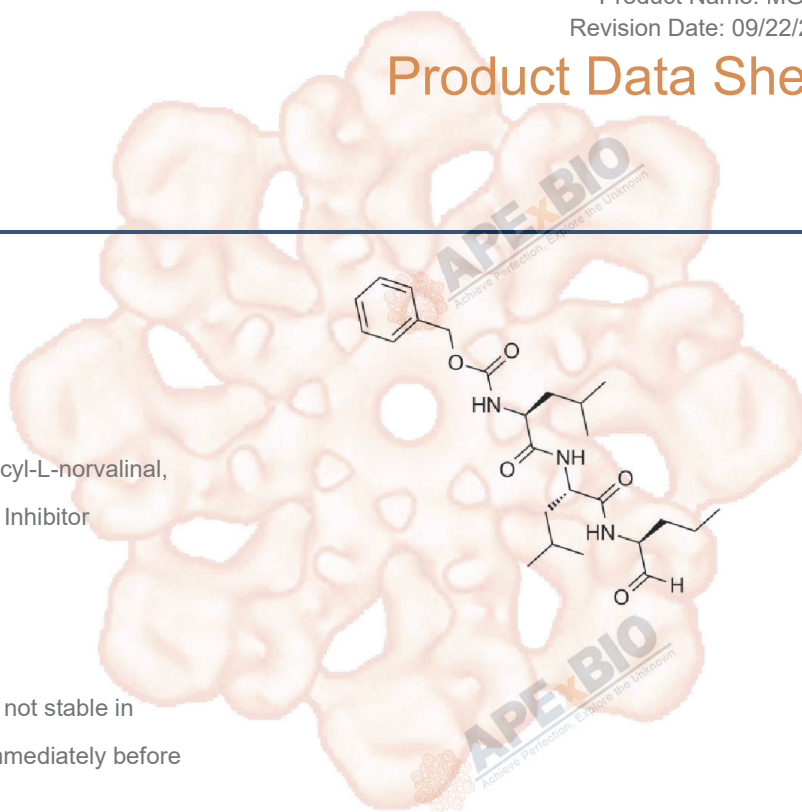


# Product Data Sheet

## MG-115

<b>Cat. No.:</b>	A2612
<b>CAS No.:</b>	133407-86-0
<b>Formula:</b>	C <sub>25</sub> H <sub>39</sub> N <sub>3</sub> O <sub>5</sub>
<b>M.Wt:</b>	461.59
<b>Synonyms:</b>	Carbobenzoxy-L-leucyl-L-leucyl-L-norvalinal, Z-LL-Nva-CHO, Proteasome Inhibitor XII, MG115
<b>Target:</b>	Ubiquitination/ Proteasome
<b>Pathway:</b>	Proteasome
<b>Storage:</b>	Store at -20°C The product is not stable in solution, please dissolve it immediately before use.



## Solvent & Solubility

≥23.08 mg/mL in DMSO; insoluble in H<sub>2</sub>O; ≥26.5 mg/mL in EtOH

In Vitro

Preparing Stock Solutions	Mass		1mg	5mg	10mg
	Solvent	Concentration			
		<b>1 mM</b>	2.1664 mL	10.8321 mL	21.6642 mL
		<b>5 mM</b>	0.4333 mL	2.1664 mL	4.3328 mL
		<b>10 mM</b>	0.2166 mL	1.0832 mL	2.1664 mL

Please refer to the solubility information to select the appropriate solvent.

## Biological Activity

Shortsummary

Potent reversible proteasome inhibitor

IC<sub>50</sub> & Target

### Cell Viability Assay

In Vitro

Cell Line:	Transfected COS-7 cells expressing mutant or wild-type insulin receptors
Preparation method:	Soluble in DMSO. General tips for obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes and/or shake it in the ultrasonic bath for a

	while. Stock solution can be stored below -20°C for several months.
Reacting conditions:	50 µM; 2 hrs
Applications:	In the Leu1193 and Asp1179 mutant cell lines, MG-115 increased the intensities of the bands of the insulin proreceptors and the mature β-subunits to 3- and 4.2-fold, respectively. However, in the wild-type cell lines, there was no change in the intensities of these bands. The results suggested that both Leu1193 and Asp1179 mutant insulin proreceptors were degraded by the proteasome in the cytosol.
In Vivo	<b>Animal experiment</b>
	Applications:

## Product Citations

1. Wang Y, Lu S, et al. "Sonic hedgehog induces GLT-1 degradation via PKC delta to suppress its transporter activities." Neuroscience. 2017 Oct 6;365:217-225. PMID:28993237

See more customer validations on [www.apexbt.com](http://www.apexbt.com).

## References

[1]. Imamura T, Haruta T, Takata Y, et al. Involvement of heat shock protein 90 in the degradation of mutant insulin receptors by the proteasome. J Biol Chem, 1998, 273(18): 11183-11188.

## Caution

**FOR RESEARCH PURPOSES ONLY.**

**NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

Specific storage and handling information for each product is indicated on the product datasheet. Most APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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