

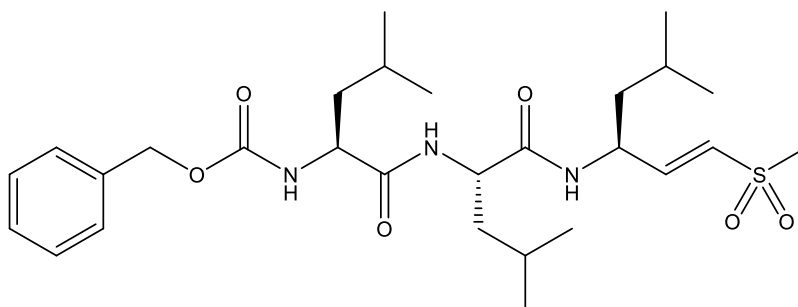
**Catalog # 10-4990**

**Z-Leu-Leu-Leu-vinylsulfone**

CAS# 193482-47-2

N-[(Phenylmethoxy)carbonyl]-L-leucyl-N-[(1S)-3-methyl-1-[(1E)-2-(methylsulfonyl)ethenyl]butyl]-L-leucinamide; ZL3VS;  
Z-Leu-Leu-Leu-VS

Lot # FBS2181



Z-Leu-Leu-Leu-vinylsulfone blocks the trypsin-like, chymotrypsin-like, and peptidylglutamyl peptidase activity in isolated proteasomes and in living cells *via* covalent modification of active site threonine residues.<sup>1,2</sup>

- 1) Bogyo *et al.* (1997), *Covalent modification of the active site threonine of proteasomal  $\beta$  subunits and the Escherichia coli homolog HsIV by a new class of inhibitors*; Proc. Natl. Acad. Sci. USA **94** 6629
- 2) Powers *et al.* (2002); *Irreversible inhibitors of serine, cysteine, and threonine proteases*, Chem. Rev., **102** 4639

**PHYSICAL DATA**

Molecular Weight:	551.74
Molecular Formula:	C <sub>28</sub> H <sub>45</sub> N <sub>3</sub> O <sub>6</sub> S
Purity:	>98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (>25 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

[www.focusbiomolecules.com](http://www.focusbiomolecules.com)