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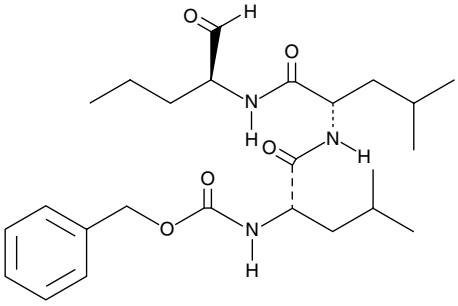
Product Information

(S)-MG115

Item No. 15413

CAS Registry No.: 133407-86-0
Formal Name: N-[(phenylmethoxy)carbonyl]-L-leucyl-N-[(1S)-1-formylbutyl]-L-leucinamide
MF: $C_{25}H_{39}N_3O_5$
FW: 461.6
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

For long term storage, we suggest that (S)-MG115 be stored as supplied at -20°C. It should be stable for at least two years.

(S)-MG115 is supplied as a crystalline solid. A stock solution may be made by dissolving the (S)-MG115 in the solvent of choice. (S)-MG115 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of (S)-MG115 in ethanol and DMF is approximately 30 mg/ml and approximately 25 mg/ml in DMSO.

(S)-MG115 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, (S)-MG115 should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. (S)-MG115 has a solubility of approximately 0.25 mg/ml in a 1:3 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

(S)-MG115 is a potent and reversible proteasome inhibitor, targeting the chymotryptic site on the 20S particle (K_i = 21 nM).[1] It reduces the degradation of ubiquitin-conjugated proteins in extracts.[1] (S)-MG115 also blocks the degradation of long- and short-lived proteins in intact cells as well as the proteolytic generation of diverse proteins, including NF-κB, antigens, and p53.[1-3] Proteasome inhibitors, including (S)-MG115, can induce a heat shock response and apoptosis, particularly in cancer cells.[3-5]

References

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2. Palombella, V.J., Rando, O.J., Goldberg, A.L., *et al.* The ubiquitin-proteasome pathway is required for processing the NF-κB1 precursor protein and the activation of NF-κB. *Cell* **78(5)**, 773-785 (1994).
3. Lopes, U.G., Erhardt, P., Yao, R., *et al.* p53-dependent induction of apoptosis by proteasome inhibitors. *J. Biol. Chem.* **272(20)**, 12893-12896 (1997).
4. Bush, K.T., Goldberg, A.L., and Nigam, S.K. Proteasome inhibition leads to a heat-shock response, induction of endoplasmic reticulum chaperones, and thermotolerance. *J. Biol. Chem.* **272(14)**, 9086-9092 (1997).
5. Gartel, A.L. A new target for proteasome inhibitors: FoxM1. *Expert Opin. Investig. Drugs* **19(2)**, 235-242 (2010).

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