

Calpeptin

Catalogue Number : 1172051

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Synonyms: Z-Leu-Nle-CHO

Chemical Name: benzyl N-[(2S)-4-methyl-1-oxo-1-[[[(2S)-1-oxohexan-2-yl]amino]pentan-2-yl]carbamate

Molecular Formula: C₂₀H₃₀N₂O₄

Molecular Weight: 362.5

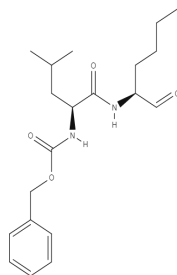
CAS Number: 117591-20-5

Purity: 90%

Applications: FA

Formulation: Crystalline solid

Storage: Product should be kept at -20°C.



Description

Calpeptin is a potent cell-permeable peptide aldehyde inhibitor. It is reported to inhibit the aggregation of platelets by the inhibition of calpain. Calpeptin also exhibits neuroprotective properties.

Preparation & Storage

Soluble in organic solvents such as ethanol and DMSO. It is soluble in DMSO up to 30 mg/ml.

References

1. Ray, S. K., Wilford, G. G., Matzelle, D. C., Hogan, E. L., Banik, N. L. (1999). Calpeptin and methylprednisolone inhibit apoptosis in rat spinal cord injury. *Annals of the New York Academy of Sciences*, 890(1), 261-269.
2. Yano, Y., Shiba, E., Kambayashi, J. I., Sakon, M., Kawasaki, T., Fujitani, K., ... Mori, T. (1993). The effects of calpeptin (a calpain specific inhibitor) on agonist induced microparticle formation from the platelet plasma membrane. *Thrombosis research*, 71(5), 385-396.
3. Tsujinaka, T., Ariyoshi, H., Uemura, Y., Sakon, M., Kambayashi, J., Mori, T. (1990). Potential participation of calpain in platelet activation studied by use of a cell penetrating calpain inhibitor (calpeptin). *Life sciences*, 46(15), 1059-1066.