Chymostatin
Item No. 15114

CAS Registry No.: 9076-44-2
MF: C31H41O6N7
FW: 607.7
Purity: ≥95% (a mixture of A, B, C)
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid

Chymostatin is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, chymostatin should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Chymostatin has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Chymostatin is a bioactive peptide of microbial origin that acts as a protease inhibitor with selectivity for chymotrypsin-like serine proteases.1 It potently inhibits chymotrypsin and chymase (K_i = 9.36 and 13.1 nM, respectively) while less effectively blocking the activity of cathepsins, papain, and leukocyte elastase.1-5 It is without effect on trypsin, thrombin, plasmin, pepsin, and kallikrein.1

Stability:
≥2 years at -20°C

Laboratory Procedures
For long term storage, we suggest that chymostatin be stored as supplied at -20°C. It should be stable for at least two years.

Chymostatin is supplied as a crystalline solid. A stock solution may be made by dissolving the chymostatin in the solvent of choice. Chymostatin is soluble in DMSO at a concentration of approximately 10 mg/ml.

Chymostatin is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, chymostatin should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Chymostatin has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

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References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/15114

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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