

Chymostatin, Chymotrypsin serine protease inhibitor

Catalog	Unit
TBI2722-5MG	5 mg
TBI2722-25MG	25 mg

Product Details

Formal Name: [(S)-1-Carboxy-2-phenylethyl]-carbamoyl-a-[2-amidohexahydro-4(S)-pyrimidyl]-(S)-glycyl-[A= Leu, B=Val, C=Ile]-phenylalaninal

Molecular Formula: C₃₁H₄₁N₇O₆

Formula Weight: 605.00 (average)

CAS Number: 9076-44-2

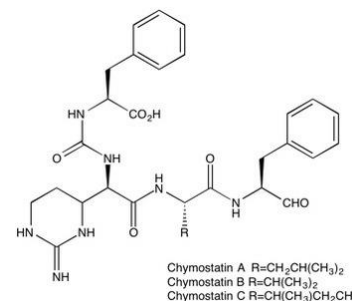
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 20 mg/ml)

Storage: -20°C

Stability: ≥ 1 year.



Applications

Chymotrypsin serine protease inhibitor

Functions

A potent, competitive, slow-binding inhibitor of α -, β -, γ -, δ -chymotrypsin, papain and cathepsins B/G (chymotrypsin-like serine proteases) $K_i=9.36$ and 13.1 nM for chymotrypsin and chymase. Cathepsin G $K_i=0.15$ μ M. Consists of a mixture of type A (L-Leu), B (L-Val) and C (L-Ile) forms. Decreases plasma and tissue levels of angiotensin II without lowering mean blood pressure in a hypertensive rat model. Commonly used in lysis buffers to prevent degradation of proteins. Typical working concentration is 6-60 μ g/ml.

Application Procedures

First dissolved in DMSO (up to 20 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 1 month.

For research use only.