

TLCK-treated Chymotrypsin

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	TLCK-treated Chymotrypsin is a type of serine protease that cleaves protein chains at the carboxyl side of aromatic amino acids. It undergoes TLCK treatment to inactivate residual trypsin activity.
Targets(IC50)	Serine Protease
In vitro	Prepare a chemical compound with a concentration of 10 mg/mL by using 1 mM HCl, and include 2 mM calcium chloride as a stabilizer. Store the prepared solution at 4°C for up to one week. For protein preparation, dissolve and denature proteins in 100 mM Tris-HCl, 10 mM CaCl ₂ (pH 8.0). Proteins that are difficult to dissolve or require denaturation for effective digestion can be dissolved at room temperature to 37°C in minimal volume with denaturants such as 6-8 M urea or 6 M guanidine hydrochloride for 1 hour. Some proteins may benefit from heating the sample to 60°C for 15-20 minutes to aid solubilization and denaturation. For disulfide bond reduction, add DTT or β-mercaptoethanol to the dissolved protein to achieve a final concentration of 5 mM, and heat the sample at 50-60°C for 20 minutes. Alkylation involves allowing the reduced protein mixture to cool to room temperature before adding iodoacetamide to a final concentration of 15 mM. Finally, adjust the reaction volume to ensure urea or guanidine hydrochloride is less than or equal to 1 M with 100 mM Tris-HCl, 10 mM CaCl ₂ (pH 8.0). For enzyme reconstitution, dissolve chymotrypsin in 1 mM HCl with a recommended concentration of 0.5-1 µg/µL. For digestion, add chymotrypsin to achieve a final protease-to-protein ratio of 1:200 to 1:20 (w/w) and incubate the sample at 25°C for 2-18 hours. Terminate the digestion reaction by adding 0.5% trifluoroacetic acid if needed.

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