



Lot 0006180374

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Catalog Number	204310
Product Name	Proteomics Grade Trypsin
Expiration Date	2024-02-28
Quantity	100 µg
Certified By	Dana Faver
Quality Controlled By	Matt Huffman
Shipping Conditions	Shipped on dry ice.

Storage Conditions

Store the lyophilized enzyme at -20°C. After resuspension, aliquot the solution and store the aliquots at -20°C for up to one month or at -80°C for long-term storage. During each use, thaw the reconstituted enzyme at room temperature and then place immediately on ice. Remove the required amount of enzyme and then refreeze the unused portion. Do not exceed five freeze-thaw cycles.

Reconstitution Conditions

Dissolve the lyophilized Proteomics Grade Trypsin in 100 µl of 50 mM acetic acid (1 µg/µl final concentration).

Description

The serine protease trypsin specifically hydrolyzes protein peptide bonds on the carboxyl side of lysine and arginine residues. Proteomics Grade Trypsin is prepared from porcine pancreas trypsin using procedures that optimize enzyme specificity and purity for mass spectrometry applications. Proteomics Grade Trypsin is modified by reductive methylation to reduce autolytic cleavage and is treated with TPCK to inactivate chymotrypsin. The Proteomics Grade Trypsin is then affinity purified, reducing the amount of pseudotrypsin, and lyophilized. Each lot of Proteomics Grade Trypsin is qualified for in-solution digestion in preparation for mass spectrometry.

Unit Activity

One unit is the amount of enzyme required to hydrolyze 1 µmole of L-BAPNA to p-nitroaniline per minute at 25°C. The assay contains 1 mM L-BAPNA and 0.01 mg/ml Proteomics Grade Trypsin in a buffer containing 50 mM Tris (pH 8.0), 5% acetonitrile.

Functional Test Conditions

Bovine carbonic anhydrase II is digested in-solution by Proteomics Grade Trypsin using standard protocols. After purification on a C-18 resin, the resulting peptides are analyzed by LC-MS using standard procedures. A peptide fingerprint search (MASCOT) of the monoisotopic masses must identify bovine carbonic anhydrase II.

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