

# Trypsin, Recombinant

(Expressed in *Pichia pastoris*)

Provis

## Scientific Background

- Recombinant Trypsin (CAS 9002-07-7) is an enzyme derived from recombinant DNA technology, providing a highly efficient and consistent source of trypsin
- Trypsin is a 24 kDA serine protease that cleaves peptide bonds on the carboxyl side of lysine and arginine residues, playing a crucial role in protein digestion and cell culture applications
- Recombinant Trypsin offers improved purity, stability, and control compared to traditional animal-derived trypsin

## Applications

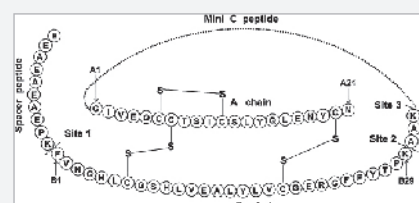
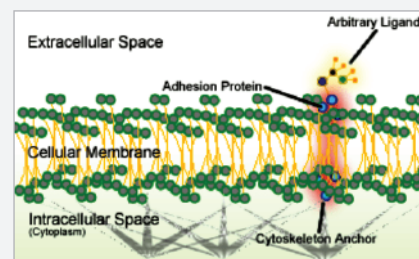
- Cell dissociation and passaging in cell culture
- Protein digestion for mass spectrometry analysis
- Recombinant protein production and purification
- Tissue engineering and regenerative medicine
- Production of insulin

## Product Features

- Manufactured using advanced recombinant DNA technology, ensuring high purity and reliability
- High specific activity  $\geq 180$  U/mg
- Purity  $\geq 70\%$  ( $\beta$ -trypsin)
- Optimal pH range from 7.5 to 8.5 for efficient enzymatic activity
- Antibiotic-free manufacturing process
- Raw materials used are animal component free, TSE/BSE-free certified and comply with IP/USP/EP
- Manufactured in a GMP certified facility with ISO classified clean rooms, following ICH Q7 principles to meet international standards

## Packaging, Storage, and Supply Chain

- Available in liquid and lyophilized forms to suit different applications
- Bulk packing and customized options available upon request
- Storage at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$
- Product is stable for up to 2 years at the recommended storage conditions
- Validated cold chain shipment comply with GDP guidelines
- Affordable pricing and efficient global delivery options



## About Provis:

Provis Biolabs is a fastest growing biotechnology company based in Hyderabad, India. Provis was founded in the year 2019 with a vision to be integrated research driven biotechnology company offering products and services to global pharmaceutical and biopharmaceutical industry. Provis began its budding scientific journey by setting up R&D lab at Aspire-BioNest, University of Hyderabad. Provis is WHO-GMP, GLP, ISO 9001-2015, Halal and Kosher certified company. Since our founding in 2019, we have developed and commercialized 5 products and 10 products in various stages of development. Provis is in the process of expanding R&D operations and establishing state-of-the-art large-scale fermentation-based manufacturing facility to serve its global ambitions.



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