

# Human Matriptase / ST14 Catalytic Domain Protein, His Tag (active enzyme)

Catalog # MAE-H5143



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Surprise Inside!

## Source

Human Matriptase / ST14 Catalytic Domain Protein, His Tag(MAE-H5143) is expressed from E. coli cells. It contains AA Gly 596 - Val 855 (Accession # [NP\\_068813](#) ).

Predicted N-terminus: Met

## Molecular Characterization

Poly-his Matriptase(Gly 596 - Val 855)  
NP\_068813

This protein carries a polyhistidine tag at the N-terminus.

The protein has a calculated MW of 30.6 kDa. The protein migrates as 27-28 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE).

## Endotoxin

Less than 1.0 EU per µg by the LAL method.

## Purity

>90% as determined by SDS-PAGE.

## Formulation

Supplied as 0.2 µm filtered solution in 50 mM Tris, 150 mM NaCl, pH 7.5 with glycerol as protectant.

Contact us for customized product form or formulation.

## Shipping

*This product is supplied and shipped with dry ice, please inquire the shipping cost.*

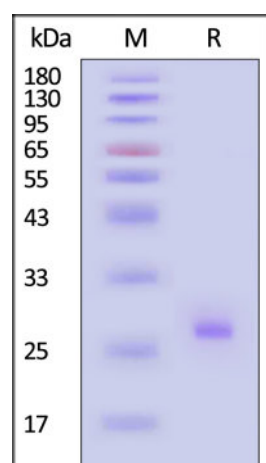
## Storage

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

## SDS-PAGE



Human Matriptase / ST14 Catalytic Domain Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

## Bioactivity

Measured by its ability to cleave the fluorogenic peptide substrate Boc-QAR-AMC . The specific activity is >20,000 pmol/min/µg (QC tested).

## Background

Can degrade fibronectin, gelatins of type I, III, IV, and V; weakly collagens III, IV, and V. Activates procollagenase, Similar to stromelysin 1, but action on collagen types III, IV and V is weak.

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## Clinical and Translational Updates

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