

## Recombinant Human MMP7 protein(N-His)

Catalog Number: PKSH034171

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Description

<b>Species</b>	Human
<b>Source</b>	E.coli-derived Human MMP7 protein Met 1-Lys 267, with an C-terminal His
<b>Calculated MW</b>	30.5 kDa
<b>Observed MW</b>	26 kDa
<b>Accession</b>	P09237
<b>Bio-activity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 0.1 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 °C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 8.0. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

### Background

Matrix metalloproteinase-7 proenzyme (proMMP-7) is a 30.47 kDa matrix metalloproteinases with 273 amino acid residues. MMP-7 restricted production by normal mucosal and exocrine gland epithelial cells, as well as by carcinoma cells. Functionally, it involved breakdown of extracellular matrix (casein, gelatins of types I, III, IV, and V, and fibronectin) in normal physiological processes and disease processes. MMP-7 is contributed to early tumor development during carcinogenesis. proMMP7 activation by trypsin occurs via an intermediate cleaved at Lys50-Asn51.

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