



Recombinant Protein Technical Manual

Recombinant Human MMP-3 Protein (His Tag)

RPES0996

Product Data:

Product SKU: RPES0996

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P08254

Protein Information:

Molecular Mass: 53.26 kDa

AP Molecular Mass: 52 kDa

Tag: C-His

Bio-activity:

Purity: > 95% as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 150mM NaCl, 0.05% Brij35, 10% Glycerol, pH 7.5.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Stromelysin; SL; Matrix metalloproteinase-3; Transin; MMP3; STMY1; CHDS6; MMP-3; SL; STMY; STR1

Immunogen Information:

Sequence: Tyr18-Cys477(Lys45Glu)

Background:

MMP3 is a member of the matrix metalloproteinase (MMP) family whose members are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, tissue remodeling, and disease processes including arthritis and metastasis. The MMP-3 enzyme degrades collagen types II, III, IV, IX, and X, proteoglycans, fibronectin, laminin, and elastin. In addition, MMP-3 can also activate other MMPs such as MMP, MMP-7, and MMP-9, rendering MMP-3 crucial in connective tissue remodeling. [3] The enzyme is thought to be involved in wound repair, progression of atherosclerosis, and tumor initiation.