Recombinant Rat MMP-9 Protein (His Tag)

Catalog Number: PKSR030381



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

Description

Synonyms Mmp9
Species Rat

Expression Host

Sequence

Met 1-Pro 708

Accession

EDL96479.1

Calculated Molecular Weight

Observed molecular weight

Tag

HEK293 Cells

Met 1-Pro 708

100-110 kDa

Bioactivity Measured by its ability to cleave a fluorogenic peptide substrate Mca-PLGL-Dpa-

AR-NH2 (AnaSpec, Catalog # 27076). The specific activity is > 1000

pmoles/min/µg. (Activation description: The proenzyme needs to be activated by

APMA for an activated form)

Properties

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

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

Storage 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.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile 50mM MES, 100mM NaCl, 1mM CaCl2, 10% Glycerol,

pH 7.4

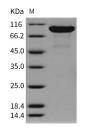
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed

Reconstitution Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Matrix metalloproteinases (MMPs) are neutral proteinases that are involved in the breakdown and remodeling of the extracellular matrix (ECM) under a variety of physiological and pathological conditions, such as morphogenesis, differentiation, angiogenesis and tissue remodeling, as well as pathological processes including inflammation, arthritis,

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cardiovascular diseases, pulmonary diseases and tumor invasion. MMP9, also known as 92-kDa gelatinase B/type IV collagenase, is secreted from neutrophils, macrophages, and a number of transformed cells, and is the most complex family member in terms of domain structure and regulation of its activity. It plays an important role in tissue remodelling in normal and pathological inflammatory processes. MMP-9 is a major secretion product of macrophages and a component of cytoplasmic granules of neutrophils, and is particularly important in the pathogenesis of inflammatory, infectious, and neoplastic diseases in many organs including the lung. This enzyme is also secreted by lymphocytes and stromal cells upon stimulation by inflammatory cytokines, or upon delivery of bi-directional activation signals following integrin-mediated cell-cell or cell-extracellular matrix (ECM) contacts. The dramatic overexpression of MMP-9 in cancer and various inflammatory conditions clearly points to the molecular mechanisms controlling its expression as a potential target for eventual rational therapeutic intervention.

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