

Recombinant Rat Mmp2 Protein, His-tagged

Cat. No. Mmp2-1786R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Mmp2 Protein (Tyr445-Cys662) with N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Tyr445-Cys662
Description	Enables fibronectin binding activity and peptidase activity. Involved in several processes, including cellular response to estradiol stimulus; circulatory system development; and reproductive structure development. Located in cytoplasm and extracellular space. Used to study artery disease (multiple); conjunctivitis; and transient cerebral ischemia. Biomarker of several diseases, including acute necrotizing pancreatitis; artery disease (multiple); bile duct disease (multiple); brain ischemia (multiple); and liver cirrhosis (multiple). Human ortholog(s) of this gene implicated in artery disease (multiple); eye disease (multiple); pseudoxanthoma elasticum; and temporal arteritis. Orthologous to human MMP2 (matrix metalloproteinase 2).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 26.1 kDa
Purity	> 95%

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

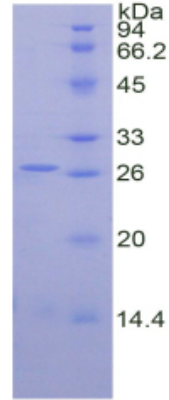
GENE INFORMATION

Gene Name	Mmp2 matrix metalloproteinase 2 [Rattus norvegicus (Norway rat)]
Official Symbol	Mmp2
Synonyms	MMP2; matrix metalloproteinase 2; 72 kDa type IV collagenase; MMP-2; gelatinase A; 72 kDa gelatinase; matrix metalloproteinase 2; matrix metalloproteinase-2;
Gene ID	81686
mRNA Refseq	NM_031054
Protein Refseq	NP_112316
UniProt ID	P33436

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15% SDS-PAGE

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