

PEX, His tagged

Human, Recombinant (PEX)

Expressed in *E. coli*

Cat. No. CRP0857

Lot. No. (See product label)

PRODUCT INFORMATION

Description: PEX is the C-terminal hemopexin domain of Matrix Metalloproteinase-2. It has the activity of anti-angiogenesis, and a naturally occurring form of PEX can be detected in vivo. PEX can block angiogenesis and tumor growth in vivo, providing a potentially novel therapeutic approach for diseases associated with neovascularization. The appearance of PEX at sites of neovascularization may not only control normal angiogenesis, but when administered in sufficient quantities, may provide a naturally-occurring therapeutic inhibitor of diseases associated with angiogenesis.

M. W.: approximately 23 KDa

Recombinant: Expressed in *E. coli*

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

Formulation: The protein (1mg/ml) was lyophilized with 2mM Tris pH-7.4.

Specific Activity: Measured by its ability of suppressing angiogenesis *in vitro*.

Storage buffer: Liquid. In PBS Buffer.

Storage: Lyophilized rHuPEX although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution rHuPEX should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

REFERENCES

1. Massova I, Kotra LP, Fridman R, Mobashery S (1998). Matrix metalloproteinases: structures, evolution, and diversification. *FASEB J.* 12 (12): 1075–95.
2. Nagase H, Woessner JF (1999). Matrix metalloproteinases. *J. Biol. Chem.* 274 (31): 21491–4.
3. Goffin F, Frankenne F, Béliard A, et al. (2002). Human endometrial epithelial cells modulate the activation of gelatinase a by stromal cells. *Gynecol. Obstet. Invest.* 53 (2): 105–11.



PDB rendering based on 1ck7.

(Matrix Metalloproteinase-2)

Available structures: [1ck7](#), [1cxw](#), [1eak](#), [1gen](#),
[1qxd](#), [1j7m](#), [1ks0](#), [1rtg](#)

GENE INFORMATION

Gene Name: [MMP2](#)

mRNA Refseq: [NM_001127891](#)

Protein Refseq: [NP_001121363](#)

MIM: [120360](#)

UniProt ID: P08253

Gene ID: [4313](#)

Chromosome Location: 16q13-q21

Pathway: GnRH signaling pathway; Leukocyte transendothelial migration.

Function: calcium ion binding; catalytic activity; metal ion binding; metalloendopeptidase activity; protein binding; zinc ion binding.

Synonyms: CLG4; MONA; CLG4A; TBE-1; MMP-II; matrix metalloproteinase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase); matrix metalloproteinase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase); MMP2_HUMAN; 72 kDa type IV collagenase [Precursor]; EC 3.4.24.24.; 72 kDa gelatinase; 72kD type IV collagenase; Gelatinase A; Matrix metalloproteinase-2; collagenase type IV-A; matrix metalloproteinase 2 (gelatinase A, 72kD gelatinase, 72kD type IV collagenase); matrix metalloproteinase-II; neutrophil gelatinase.

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