

**Product:** PEX, human, recombinant  
**Catalog #:** 12-4414  
**Amount:** 5 µg

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**DESCRIPTION:** Recombinant human PEX (rHuPEX)  
rHuPEX (C-Terminal Fragment of Human Matrix Metalloproteinase-2, MMP-2) which comprises C-terminal hemopexin-like domain (amino acids 445-635), Recombinant Human PEX is a noncatalytic Metalloproteinase Fragment with Integrin Binding Activity and can inhibit cell associated collagenolytic activity both in vitro and in vivo. Moreover, 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. PEX is expressed as inclusion body in E. coli and subsequently refolded in vitro to get biological activity.

**SOURCE:** *Escherichia coli* expression system

**PURITY:** > 95%, as determined by:  
(a) Analysis by RP-HPLC.  
(b) Anion-exchange FPLC  
(c) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel

**ACTIVITY:** The bioactivity was measured by HMEC cell line, PEX can inhibit the transmembrane activity of HMEC under the stimulation of VEGF.

**ENDOTOXIN:** Less than 0.1 ng/µg (IEU/µg) of rHuPEX

**DIMERS & AGGREGATES:** Less than 1% as determined by silver stained SDS-PAGE gel analysis

**PROTEIN CONTENT:** Protein quantitation was carried out by 2 independent methods:  
- UV spectroscopy at 280 nm  
- Analysis by RP-HPLC

**FORM:** Purified, 0.5X PBS, pH 7.4, containing 0.1% BSA

**STORAGE:** -20°C (aliquot), avoid freezing and thawing cycles

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