

Recombinant Human PHEX

Cat. No. PHEX-178H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human phosphate regulating endopeptidase homolog, X-linked protein is expressed as inclusion bodies in E.coli and has a molecular mass of 28,453 Dalton.
Species	Human
Source	E.coli
Description	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.
Form	Sterile Filtered White lyophilized (freeze-dried) powder. The protein was lyophilized with 2mM Tris pH-7.4.
Molecular Mass	28,453 Dalton
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Stability	Lyophilized rHuPEX although stable at room temperature for 3 weeks, should be stored desiccated below -18oC. Upon reconstitution rHuPEX should be stored at 4oC

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between 2-7 days and for future use below -18oC. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Reconstitution

It is recommended to reconstitute the PEX in sterile 18MΩ-cm H₂O not less than 100g/ml, which can then be further diluted to other aqueous solutions.

GENE INFORMATION

Gene Name PHEX phosphate regulating endopeptidase homolog, X-linked [Homo sapiens]

Official Symbol PHEX

Synonyms PHEX; phosphate regulating endopeptidase homolog, X-linked; HPDR, HYP, phosphate regulating gene with homologies to endopeptidases on the X chromosome (hypophosphatemia, vitamin D resistant rickets); phosphate-regulating neutral endopeptidase; HPDR1; HYP1; PEX; XLH; metalloendopeptidase homolog PEX; X-linked hypophosphatemia protein; vitamin D-resistant hypophosphatemic rickets protein; phosphate regulating gene with homologies to endopeptidases on the X chromosome (hypophosphatemia, vitamin D resistant rickets); HYP; HPDR; LXHR;

Gene ID 5251

mRNA Refseq NM_000444

Protein Refseq NP_000435

MIM 300550

UniProt ID P78562

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Chromosome Location	Xp22.2-p22.1
Function	aminopeptidase activity; metal ion binding; metalloendopeptidase activity; peptidase activity; zinc ion binding;

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