

Active Recombinant Human PHEX, His-tagged

Cat. No. PHEX-179H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PHEX (Gln42-Trp749), fused with an N-terminal 6-His tag, was expressed in Sf 21 (baculovirus).
Species	Human
Source	Sf21 Cells
ProteinLength	42-749 a.a.
Description	The protein encoded by this gene is a transmembrane endopeptidase that belongs to the type II integral membrane zinc-dependent endopeptidase family. The protein is thought to be involved in bone and dentin mineralization and renal phosphate reabsorption. Mutations in this gene cause X-linked hypophosphatemic rickets. Alternative splicing results in multiple transcript variants.
Predicted N Terminal	His & Leu47
Form	Supplied as a 0.2 µm filtered solution in Tris and NaCl.
Bio-activity	Measured by its ability to cleave a fluorogenic peptide substrate, Mca-YVADAPK. The specific activity is >125 pmol/min/µg.
Molecular Mass	Predicted Molecular Mass: 83 kDaSDS-PAGE: 68-85 kDa, reducing conditions
Endotoxin	< 1.0 eu per 1 µg of the protein by the lal method

 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

Purity >95%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain at 5 µg per lane.

Storage Avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 °C as supplied. 3 months, -20 to -70 °C under sterile conditions after opening.

GENE INFORMATION

Gene Name [PHEX phosphate regulating endopeptidase homolog, X-linked \[Homo sapiens \(human\) \]](#)

Official Symbol PHEX

Synonyms PHEX; HYP; PEX; XLH; HPDR; HYP1; LXHR; HPDR1; phosphate regulating endopeptidase homolog, X-linked; phosphate-regulating neutral endopeptidase; 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)

Gene ID [5251](#)

mRNA Refseq [NM_000444](#)

Protein Refseq [NP_000435](#)

MIM [300550](#)

UniProt ID [P78562](#)

Chromosome Xp22.2-p22.1

 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



Location

Function

aminopeptidase activity; metalloendopeptidase activity; zinc ion binding

 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