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

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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

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Location	
Function	aminopeptidase activity; metalloendopeptidase activity; zinc ion binding

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