

Datasheet for ABIN7556731  
**PHEX Protein (AA 1-749) (His tag)**



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## Overview

Quantity:	1 mg
Target:	PHEX
Protein Characteristics:	AA 1-749
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PHEX protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Phex Protein expressed in mammalian cells.
Sequence:	MEAETGSTME TGKGTNRGIR IALALFIGGT LVLGTLFLV SQLLSFQAK QEYCLKPECI EAAAAIMSKV NLSVDPCENF FRFACDGWIS NNPIPEDMPS YGVYPWLRHN VDLKALKALLE KSVSRRRDTE AVQKAKILYS SCMNEKAIEK ADAKPLLHIL RHSPFRWPVL EANIGPEGVW SERKFSLLQT LATFRGQYSN SVFIRLYVSP DDKASNEHIL KLDQATLSLA VREDFLDNTT EAKSYRDALY KFMVDTAVLL GANSSRAEHD MKSVLRLEIK IAEIMIPHEN RTSEAMYMKM NISELSAMIP QFDWLGYIKK VIDTRLYPHL KDIGPSENVV VRVPQYFKDL FRILGAERKK TIANYLVWRM VYSRIPNLSR RFQYRWLEFS RVIQGTTTTLL PQWDKCVNFI ESALPYVVVGK MFVNVHFQED KKEMMEELIE GVRWAFIDML EKENEWMDAG TKRKAQEKAR AVLAKVGYPE FIMNDTYVNE DLKAIKFSES DYFGNVLQTR KYLAQSDFFW LRKAVPKTEW FTNPTTVNAF YASTNQIRF PAGELQKPPF WGTEYPRSL S YGAIGVIVGH EFTHGFDNNG RKYDKNGNLD PWWSVESEEK FKEKTKCMIN QYSNYYWKKA GLNVK GKRTL GENIADNGGL REAFRAYRKW INDRRQGVVEE PLLPGITFTN NQLFFLSYAH VRCNSYRPEA AREQVQIGAH SPPQFRVNGA

## Product Details

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ISNFEFQKA FNCPRNSTMN RGADSCRLW **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

**Specificity:** If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

**Characteristics:** **Key Benefits:**

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

**Purity:** > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

**Grade:** custom-made

## Target Details

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**Target:** PHEX

**Alternative Name:** Phex ([PHEX Products](#))

**Background:** Phosphate-regulating neutral endopeptidase PHEX (Metalloendopeptidase homolog PEX) (EC 3.4.24.-) (Phosphate regulating neutral endopeptidase) (Vitamin D-resistant hypophosphatemic rickets protein) (X-linked hypophosphatemia protein) (HYP),FUNCTION: Peptidase that cleaves SIBLING (small integrin-binding ligand, N-linked glycoprotein)-derived ASARM peptides, thus regulating their biological activity (By similarity). Cleaves ASARM peptides between Ser and Glu or Asp residues (By similarity). Regulates osteogenic cell differentiation and bone mineralization through the cleavage of the MEPE-derived ASARM peptide (PubMed:11159866,

## Target Details

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PubMed:18597632, PubMed:26051469). Promotes dentin mineralization and renal phosphate reabsorption by cleaving DMP1- and MEPE-derived ASARM peptides (PubMed:26051469). Inhibits the cleavage of MEPE by CTSB/cathepsin B thus preventing MEPE degradation (By similarity). {ECO:0000250|UniProtKB:P78562, ECO:0000269|PubMed:11159866, ECO:0000269|PubMed:26051469, ECO:0000305|PubMed:18597632}.

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Molecular Weight: 86.4 kDa

UniProt: [P70669](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months