

Datasheet for ABIN7550771
PHEX Protein (AA 1-749) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	PHEX
Protein Characteristics:	AA 1-749
Origin:	Human
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:	MEAETGSSVE TGKKANRGTR IALVVFVGGT LVLGTILFLV SQGLLSLQAK QEYCLKPECI EAAAAILSKV NLSVDPCDNF FRFACDGWIS NNPIPEDMPS YGVYPWLRHN VDLKCLKELLE KSISRRTDTE AIQKAKILYS SCMNEKAIEK ADAKPLLHIL RHSPFRWPVL ESNIGPEGVW SERKFSLQQT LATFRGQYSN SVFIRLYVSP DDKASNEHIL KLDQATLSLA VREDYLDNST EAKSYRDALY KFMVDTAVLL GANSSRAEHD MKSVLRLEIK IAEIMIPHEN RTSEAMYMKM NISELSAMIP QFDWLGYYIKK VIDTRLYPHL KDISPSENVV VRVPQYFKDL FRILGSERKK TIANYLVWRM VYSRIPNLSR RFQYRWLEFS RVIQGTITLL PQWDKCVNFI ESALPYVVVGK MFVDVYFQED KKEMMEELVE GVRWAFIDML EKENEWMDAG TKRKAKEKAR AVLAKVGYPE FIMNDTHVNE DLKAIKFSEA DYFGNVLQTR KYLAQSDFFW LRKAVPKTEW FTNPPTTVNAF YASTNQIRF PAGELQKPFV WGTEYPRSLV YGAIGVIVGH EFTHGFDNNG RKYDKNGNLD PWWSTESEEK FKEKTKCMIN QYSNYYWKA GLNVK GKRTL GENIADNGGL REAFRAYRKW INDRRQGLEE PLLPGITFTN NQLFFLSYAH VRCNSYRPEA AREQVQIGAH SPPQFRVNGA

Product Details

ISNFEFQKA FNCPNSTMN RGMDSCLRW **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

Target: PHEX

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

Background: Phosphate-regulating neutral endopeptidase PHEX (EC 3.4.24.-) (Metalloendopeptidase homolog PEX) (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 (PubMed:9593714, PubMed:15664000, PubMed:18162525, PubMed:18597632). Cleaves ASARM peptides between Ser and Glu or Asp residues (PubMed:18597632). Regulates osteogenic cell differentiation and bone mineralization through the cleavage of the MEPE-

Target Details

derived ASARM peptide (PubMed:18597632). Promotes dentin mineralization and renal phosphate reabsorption by cleaving DMP1- and MEPE-derived ASARM peptides (PubMed:18597632, PubMed:18162525). Inhibits the cleavage of MEPE by CTSB/cathepsin B thus preventing MEPE degradation (PubMed:12220505). {ECO:0000250|UniProtKB:P70669, ECO:0000269|PubMed:12220505, ECO:0000269|PubMed:18162525, ECO:0000269|PubMed:18597632}.

Molecular Weight: 86.5 kDa

UniProt: [P78562](#)

Application Details

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

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