

Datasheet for ABIN7550746
PEX5 Protein (AA 1-639) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	PEX5
Protein Characteristics:	AA 1-639
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PEX5 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant PEX5 Protein expressed in mammalian cells.
Sequence:	<p>MAMRELVEAE CGGANPLMKL AGHFTQDKAL RQEGLRPGPW PPGAPASEAA SKPLGVASED ELVAEFLQDQ NAPLVSRAPQ TFKMDDLLAE MQQIEQSNFR QAPQRAPGVA DLALSENWAQ EFLAAGDAVD VTQDYNEDW SQEFISEVTD PLSVSPARWA EEYLEQSEEK LWLGEPEGTA TDRWYDEYHP EEDLQHTASD FVAKVDDPKL ANSEFLKFVR QIGEGQVSLE SGAGSGRAQA EQWAAEFIQQ QGTSDAWVDQ FTRPVNTSAL DMEFERAKSA IESDVDFWDK LQAELEEMAK RDAEAHPWLS DYDDLTSATY DKG YQFEEEN PLRDHPQPFE EGLRRLQEGD LPNAVLLFEA AVQQDPKHME AWQYL GTTQA ENEQELLAIS ALRRCLELKP DNQTALMALA VSFTNESLQR QACETLRDWL RYTPAYAHV TPAEEGAGGA GLGPSKRILG SLLSDSLFLE VKELFLAAVR LDPTSIDPDV QCGLGVLFNL SGEYDKAVDC FTAALSVRPN DYLLWNKLGA TLANGNQSEE AVAAYRRAL LQPGYIRSR YNLGISCINLG AHREAVEHFL EALNMQRKSR GPRGEGGAMS ENIWSTLRLA LSMLGQSDAY GAADARDLST LLTMFGLPQ Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity</p>

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:	<p>Key Benefits:</p> <ul style="list-style-type: none">• 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). <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	PEX5
Alternative Name:	PEX5 (PEX5 Products)
Background:	<p>Peroxisomal targeting signal 1 receptor (PTS1 receptor) (PTS1R) (PTS1-BP) (Peroxin-5) (Peroxisomal C-terminal targeting signal import receptor) (Peroxisome receptor 1),FUNCTION: Receptor that mediates peroxisomal import of proteins containing a C-terminal PTS1-type tripeptide peroxisomal targeting signal (SKL-type) (PubMed:7706321, PubMed:7719337, PubMed:7790377, PubMed:11336669, PubMed:12456682, PubMed:16314507, PubMed:21976670, PubMed:26344566, PubMed:11101887, PubMed:17157249, PubMed:17428317). Binds to cargo proteins containing a PTS1 peroxisomal targeting signal in the cytosol, and translocates them into the peroxisome matrix by passing through the PEX13-PEX14 docking complex along with cargo proteins (PubMed:12456682, PubMed:21976670,</p>

Target Details

PubMed:26344566, PubMed:17157249). PEX5 receptor is then retrotranslocated into the cytosol, leading to release of bound cargo in the peroxisome matrix, and reset for a subsequent peroxisome import cycle (PubMed:11336669, PubMed:24662292). {ECO:0000269|PubMed:11101887, ECO:0000269|PubMed:11336669, ECO:0000269|PubMed:12456682, ECO:0000269|PubMed:16314507, ECO:0000269|PubMed:17157249, ECO:0000269|PubMed:17428317, ECO:0000269|PubMed:21976670, ECO:0000269|PubMed:24662292, ECO:0000269|PubMed:26344566, ECO:0000269|PubMed:7706321, ECO:0000269|PubMed:7719337, ECO:0000269|PubMed:7790377}., FUNCTION: [Isoform 1]: In addition to promoting peroxisomal translocation of proteins containing a PTS1 peroxisomal targeting signal, mediates peroxisomal import of proteins containing a C-terminal PTS2-type peroxisomal targeting signal via its interaction with PEX7 (PubMed:9668159, PubMed:11336669, PubMed:11546814, PubMed:25538232, PubMed:33389129). Interaction with PEX7 only takes place when PEX7 is associated with cargo proteins containing a PTS2 peroxisomal targeting signal (PubMed:25538232). PEX7 along with PTS2-containing cargo proteins are then translocated through the PEX13-PEX14 docking complex together with PEX5 (PubMed:25538232). {ECO:0000269|PubMed:11336669, ECO:0000269|PubMed:11546814, ECO:0000269|PubMed:25538232, ECO:0000269|PubMed:33389129, ECO:0000269|PubMed:9668159}., FUNCTION: [Isoform 2]: Does not mediate translocation of peroxisomal import of proteins containing a C-terminal PTS2-type peroxisomal targeting signal. {ECO:0000269|PubMed:11546814}.

Molecular Weight: 70.9 kDa

UniProt: [P50542](#)

Pathways: [Monocarboxylic Acid Catabolic Process](#)

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

Handling Advice:	Avoid repeated freeze-thaw cycles.
------------------	------------------------------------

Storage:	-80 °C
----------	--------

Storage Comment:	Store at -80°C.
------------------	-----------------

Expiry Date:	12 months
--------------	-----------