

PEX19 Protein, Human (GST)

Cat. No.:	HY-P700383
Synonyms:	PEX19; peroxisomal biogenesis factor 19; peroxisomal farnesylated protein , PXF; D1S2223E; HK33; housekeeping gene; 33kD; PMP1; PMPI; PXMP1; peroxin-19; housekeeping gene, 33kD; 33 kDa housekeeping protein; peroxisomal farnesylated protein; PXF; FLJ55296;
Species:	Human
Source:	E. coli
Accession:	P40855 (A2-C296)
Gene ID:	5824
Molecular Weight:	59.3 kDa

PROPERTIES

AA Sequence	<pre> A A A E E G C S V G A E A D R E L E E L L E S A L D D F D K A K P S P A P P S T T T A P D A S G P Q K R S P G D T A K D A L F A S Q E K F F Q E L F D S E L A S Q A T A E F E K A M K E L A E E E P H L V E Q F Q K L S E A A G R V G S D M T S Q Q E F T S C L K E T L S G L A K N A T D L Q N S S M S E E E L T K A M E G L G M D E G D G E G N I L P I M Q S I M Q N L L S K D V L Y P S L K E I T E K Y P E W L Q S H R E S L P P E Q F E K Y Q E Q H S V M C K I C E Q F E A E T P T D S E T T Q K A R F E M V L D L M Q Q L Q D L G H P P K E L A G E M P P G L N F D L D A L N L S G P P G A S G E Q C </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>PEX19 protein plays a crucial role in early peroxisomal biogenesis, serving both as a cytosolic chaperone and an import receptor for peroxisomal membrane proteins (PMPs). Its function involves binding to and stabilizing newly synthesized PMPs in the cytoplasm, particularly through interactions with their hydrophobic membrane-spanning domains. Subsequently, PEX19 targets these PMPs to the peroxisome membrane by associating with the integral membrane protein PEX3. Notably, PEX19 engages in diverse protein-protein interactions, forming complexes with a spectrum of peroxisomal</p>
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membrane proteins, such as PEX10, PEX11A, PEX11B, PEX12, PEX13, PEX14, and PEX16, as well as other crucial components like PXMP2/PMP22, PXMP4/PMP24, SLC25A17/PMP34, ABCD1/ALDP, ABCD2/ALDRP, and ABCD3/PMP70. Additionally, PEX19 plays a role in nuclear exclusion of CDKN2A, preventing its interaction with MDM2 and consequently facilitating the degradation of TP53. Furthermore, it interacts with the tumor suppressor CDKN2A/p19ARF, highlighting its involvement in intricate cellular processes.

Caution: Product has not been fully validated for medical applications. For research use only.

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