

PEX19 Protein, Human, Recombinant (GST)

General Information

Synonyms:	Peroxisomal farnesylated protein;33 kDa housekeeping protein;PEX19;Peroxisomal biogenesis factor 19;Peroxin-19;HK33;PXF
Protein Construction:	2-296 aa
Species:	Human
Expression Host:	E. coli
Accession:	P40855
Molecular Weight:	59.3 kDa (predicted)
AA Sequence:	AAAEEGCSVGAEADRELEELLESALDDFDKAKPSPAPPSTTTAPDASGPQKRSPGDTAKDALFASQEKFFQEL FDSELASQATAEFEKAMKELAE EEPHLVEQFQKLSEAAGR VGS DMTSQQEFTSCLKETLSGLAKNATDLQNS SMSEEELTKAMEGLGMDEGDGEGNILPIMQSIMQNLLSKDVL YPSLKEITEKYPEWLQSHRESLPPEQFEKYQ EQHSVMCKICEQFEAETPTDSETTQKARFEMVLDLMQQLQDLGHPPKELAGEMPPGLNFDLDALNLSGPPG ASGEQC

QC Testing

Biological Activity:	Measured by its binding ability in a functional ELISA. Immobilized ABCD1 at 5 µg/mL can bind human PEX19, the EC50 of human PEX19 protein is 22.96-33.00 µg/mL.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Necessary for early peroxisomal biogenesis. Acts both as a cytosolic chaperone and as an import receptor for peroxisomal membrane proteins (PMPs). Binds and stabilizes newly synthesized PMPs in the cytoplasm by

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interacting with their hydrophobic membrane-spanning domains, and targets them to the peroxisome membrane by binding to the integral membrane protein PEX3. Excludes CDKN2A from the nucleus and prevents its interaction with MDM2, which results in active degradation of TP53.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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