

Product datasheet for **TP726985**

ERO1L (ERO1A) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human ERO1-Like Protein $\hat{\pm}$ /ERO1L (C-6His)
Species:	Human
Expression cDNA Clone or AA Sequence:	Glu24-His468
Tag:	C-His
Buffer:	Lyophilized from a 0.2 um filtered solution of 20mM PB, 150mM NaCl, pH 7.4.
Note:	Recombinant Human ERO1-Like Protein alpha is produced by our Mammalian expression system and the target gene encoding Glu24-His468 is expressed with a 6His tag at the C-terminus.
Storage:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Stability:	12 months from date of despatch
Locus ID:	30001
UniProt ID:	Q96HE7
Summary:	ERO1-Like Protein $\hat{\pm}$ (ERO1L) is an enzyme that belongs to the EROs family. ERO1L is expressed at high level in esophagus and upper digestive tract. ERO1L is an essential oxidoreductase that oxidizes proteins in the endoplasmic reticulum to produce disulfide bonds. ERO1L acts by oxidizing directly P4HB/PDI isomerase through a direct disulfide exchange. It associates with ERP44, demonstrating that it does not oxidize all PDI related proteins and can discriminate between PDI and related proteins. Its reoxidation probably involves electron transfer to molecular oxygen via FAD. ERO1L may be responsible for a significant proportion of reactive oxygen species (ROS) in the cell. ERO1L responses to temperature stimulus, protein thiol-disulfide exchange, protein folding with or without chaperone cofactor and transport.



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