ERP29 Protein, Human (GST)

Cat. No.:	HY-P71686
Synonyms:	ERP29; C12orf8; ERP28Endoplasmic reticulum resident protein 29; ERp29; Endoplasmic reticulum resident protein 28; ERp28; Endoplasmic reticulum resident protein 31; ERp31
Species:	Human
Source:	E. coli
Accession:	P30040 (40P-251F)
Gene ID:	10961
Molecular Weight:	Approximately 51.0 kDa

PROPERTIES

AA Sequence	P L D T V T F Y K V I P K S K F V L V K F D T Q Y P Y G E K Q D E F K R L A E N S A S S D D L L V A E V G I S D Y G D K L N M E L S E K Y K L D K E S Y P V F Y L F R D G D F E N P V P Y T G A V K V G A I Q R W L K G Q G V Y L G M P G C L P V Y D A L A G E F I R A S G V E A R Q A L L K Q G Q D N L S S V K E T Q K K W A E Q Y L K I M G K I L D Q G E D F P A S E M T R I A R L I E K N K M S D G K K E E L Q K S L N I L T A F
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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	ERP29 protein, as per available information, does not appear to function as a disulfide isomerase, distinguishing it from certain enzymes involved in disulfide bond rearrangement. Instead, ERP29 plays a pivotal role in the processing of secretory proteins within the endoplasmic reticulum (ER), suggesting its involvement in the folding of proteins in this cellular compartment. It exists as a homodimer and is an integral part of a substantial chaperone multiprotein complex. This complex includes proteins like CABP1, DNAJB11, HSP90B1, HSPA5, HYOU, PDIA2, PDIA4, PPIB, SDF2L1, and UGGT1. Notably, ERP29 is present in very small amounts within this complex, and it is intriguingly absent or present at very low levels of CALR and CANX. The detailed involvement of ERP29 in these protein interactions highlights its significance in the ER-related

	protein processing pathway.

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

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