HYOU1 Protein, Human (HEK293, His)

Cat. No.:	HY-P70943
Synonyms:	Hypoxia up-regulated protein 1; 150 kDa oxygen-regulated protein; ORP-150; 170 kDa glucose-regulated protein; GRP-170; HYOU1; ORP150
Species:	Human
Source:	HEK293
Accession:	Q9Y4L1 (M695-L999)
Gene ID:	10525
Molecular Weight:	65-75 kDa

PROPERTIES

AA Sequence	M V E E I G V E L V V L D L P D L P E D K L A Q S V Q K L Q D L T L R D L E K Q E R E K A A N S L E A F I F E T Q D K L Y Q P E Y Q E V S T E E Q R E E I S G K L S A A S T W L E D E G V G A T T V M L K E K L A E L R K L C Q G L F F R V E E R K K W P E R L S A L D N L L N H S S M F L K G A R L I P E M D Q I F T E V E M T T L E K V I N E T W A W K N A T L A E Q A K L P A T E K P V L L S K D I E A K M M A L D R E V Q Y L L N K A K F T K P R P R P K D K N G T R A E P P L N A S A S D Q G E K V I P P A G Q T E D A E P I S E P E K V E T G S E P G D T E P L E L G G P G A E P E Q K E Q S T G Q K R P L K N D E L
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
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. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	The HYOU1 protein is intricately involved in vital cytoprotective responses activated during oxygen deprivation, emphasizing its crucial role in cellular adaptation to hypoxic conditions. Additionally, HYOU1 may function as a molecular chaperone, contributing to protein folding processes. It is a component of a substantial chaperone multiprotein complex that includes DNAJB11, HSP90B1, HSPA5, PDIA2, PDIA4, PDIA6, PPIB, SDF2L1, UGGT1, and minimal amounts of ERP29, while

CALR and CANX are either absent or present at very low levels within this complex. These findings highlight the significance of HYOU1 in orchestrating cellular responses to oxygen deprivation and its potential involvement in protein quality control mechanisms.

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