

DENR Protein, Human (His-SUMO)

Cat. No.:	HY-P72172
Synonyms:	denr; DENR_HUMAN; Density regulated protein; Density-regulated protein; DRP; DRP1; DRP1 protein; Protein DRP1; SMAP-3; SMAP3; Smooth muscle cell associated protein 3; Smooth muscle cell-associated protein 3
Species:	Human
Source:	E. coli
Accession:	O43583 (A2-K198)
Gene ID:	8562
Molecular Weight:	Approximately 46 kDa. The reducing (R) protein migrates as 46 kDa in SDS-PAGE may be due to relative charge.

PROPERTIES

AA Sequence	<p>A A D I S E S S G A D C K G D P R N S A K L D A D Y P L R V L Y C G V C S L P T</p> <p>E Y C E Y M P D V A K C R Q W L E K N F P N E F A K L T V E N S P K Q E A G I S</p> <p>E G Q G T A G E E E E K K K Q K R G G R G Q I K Q K K K T V P Q K V T I A K I P</p> <p>R A K K K Y V T R V C G L A T F E I D L K E A Q R F F A Q K F S C G A S V T G E</p> <p>D E I I I Q G D F T D D I I D V I Q E K W P E V D D D S I E D L G E V K K</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm sterile filtered 20 mM Tris-HCl, 0.5 M NaCl, 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>The DENR protein emerges as a key player in translation processes, potentially involved in the translation of target mRNAs through scanning and recognition of the initiation codon. It plays a pivotal role in translation initiation by promoting the recruitment of aminoacylated initiator tRNA to the P site of 40S ribosomes. Additionally, DENR is implicated in facilitating the release of deacylated tRNA and mRNA from recycled 40S subunits following ABCE1-mediated dissociation of post-termination ribosomal complexes into subunits. Notably, DENR contributes to the modulation of the translational profile of</p>
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a subset of cancer-related mRNAs when recruited to the translational initiation complex by the oncogene MCTS1, highlighting its potential involvement in cancer-associated translational regulation. Its interaction with MCTS1 further underscores its significance in intricate cellular processes related to translation initiation and control.

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

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