

HNRNPA1 Protein, Human (His)

Cat. No.:	HY-P72229
Synonyms:	HNRNPA 1; Helix destabilizing protein; Helix-destabilizing protein; Heterogeneous nuclear ribonucleoprotein A1; Heterogeneous nuclear ribonucleoprotein A1B protein; Heterogeneous nuclear ribonucleoprotein B2 protein; Heterogeneous nuclear ribonucleoprotein core protein A1; hnRNP A1; hnRNP core protein A1; HNRNPA1; HNRPA1;
Species:	Human
Source:	E. coli
Accession:	P09651 (S2-Q354)
Gene ID:	3178
Molecular Weight:	Approximately 40.9 kDa

PROPERTIES

AA Sequence	<pre> S K S E S P K E P E Q L R K L F I G G L S F E T T D E S L R S H F E Q W G T L T D C V V M R D P N T K R S R G F G F V T Y A T V E E V D A A M N A R P H K V D G R V V E P K R A V S R E D S Q R P G A H L T V K K I F V G G I K E D T E E H H L R D Y F E Q Y G K I E V I E I M T D R G S G K K R G F A F V T F D D H D S V D K I V I Q K Y H T V N G H N C E V R K A L S K Q E M A S A S S S Q R G R S G S G N F G G G R G G G F G G N D N F G R G G N F S G R G G F G G S R G G G G Y G G S G D G Y N G F G N D G G Y G G G G P G Y S G G S R G Y G S G G Q G Y G N Q G S G Y G G S G S Y D S Y N N G G G G G F G G G S G S N F G G G G S Y N D F G N Y N N Q S S N F G P M K G G N F G G R S S G P Y G G G G Q Y F A K P R N Q </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm solution of Tris-based buffer, 50% Glycerol.
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	The HNRNPA1 Protein is intricately involved in various aspects of RNA processing, including the packaging of pre-mRNA into hnRNP particles, transport of poly(A) mRNA from the nucleus to the cytoplasm, and modulation of splice site selection. Notably, it plays a crucial role in the splicing of pyruvate kinase PKM by binding repressively to sequences flanking PKM exon
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9, inhibiting exon 9 inclusion and favoring exon 10 inclusion, ultimately leading to the production of the PKM M2 isoform. Furthermore, HNRNPA1 exhibits the ability to bind to the internal ribosome entry site (IRES), thereby inhibiting the translation of the apoptosis protease activating factor APAF1. Additionally, it may bind to specific miRNA hairpins, expanding its role in post-transcriptional gene regulation. Under conditions of microbial infection, HNRNPA1 may also play a role in HCV RNA replication, highlighting its versatility in contributing to various aspects of RNA metabolism and viral processes.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA