HNRNPH1 Protein, Human (His-SUMO)

Cat. No.:	HY-P72233
Synonyms:	DKFZp686A15170; Heterogeneous nuclear ribonucleoprotein H; Heterogeneous nuclear ribonucleoprotein H1 H; ; Heterogeneous nuclear ribonucleoprotein H1; HNRH1_HUMAN; hnRNP H; hnRNPH; Hnrnph1; HNRPH 1; HNRPH; HNRPH1 protein; N-terminally processed
Species:	Human
Source:	E. coli
Accession:	P31943 (M2-A449)
Gene ID:	3187
Molecular Weight:	Approximately 65.1 kDa

PROPERTIES

AA Sequence	M L G T E G G E G F V V K V R G L P W S C S A D E V Q R F F S D C K I Q N G A Q G I R F I Y T R E G R P S G E A F V E L E S E D E V K L A L K K D R E T M G H R Y V E V F K S N N V E M D W V L K H T G P N S P D T A N D G F V R L R G L P F G C S K E E I V Q F F S G L E I V P N G I T L P V D F Q G R S T G E A F V Q F A S Q E I A E K A L K K H K E R I G H R Y I E I F K S S R A E V R T H Y D P P R K L M A M Q R P G P Y D R P G A G R G Y N S I G R G A G F E R M R R G A Y G G G Y G G Y D D Y N G Y N D G Y G F G S D R F G R D L N Y C F S G M S D H R Y G D G G S T F Q S T T G H C V H M R G L P Y R A T E N D I Y N F F S P L N P V R V H I E I G P D G R V T G E A D V E F A T H E D A V A A M S K D K A N M Q H R Y V E L F L N S T A G A S G G A Y E H R Y V E L F L N S T A G A S G G A Y G S Q M M G G M G L S N Q S S Y G G P A S Q Q L S G G Y G G G Y G G Q S S M S G Y D Q V L Q E N S S D F Q S N I A
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm solution of PBS, 6% Trehalose, 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.
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 HNRNPH1 protein plays a crucial role as a component of heterogeneous nuclear ribonucleoprotein (hnRNP) complexes, pivotal entities in the processing events that precede the functional transformation of pre-mRNAs into translatable mRNAs in the cytoplasm. Functionally, HNRNPH1 mediates the regulation of pre-mRNA alternative splicing, with notable inhibitory effects on insulin receptor (IR) pre-mRNA exon 11 inclusion in myoblasts, a process it accomplishes in collaboration with CUGBP1. HNRNPH1 demonstrates a specific binding affinity for IR RNA and poly(RG), and it forms part of a ternary complex alongside FUBP2, PTBP1, and PTBP2. Additionally, HNRNPH1 is identified in the spliceosome C complex and interacts with IGF2BP1, CUGBP1 (in an RNA-dependent manner), and MBNL1 (in an RNA-independent manner). These interactions underscore the multifaceted and dynamic role of HNRNPH1 in orchestrating pre-mRNA processing and alternative splicing, contributing to the intricate regulation of gene expression.

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