

## HNRNPM Protein, Human (His-SUMO)

<b>Cat. No.:</b>	HY-P72234
<b>Synonyms:</b>	CEA receptor; CEAR; Heterogeneous nuclear ribonucleoprotein M; Heterogenous nuclear ribonucleoprotein M4; hnRNA binding protein M4; hnRNP M; Hnrnrm; HNRNPM4; HNRNPM; HNRNPM_HUMAN; HNRNPM4; HTGR1; M3; M4; M4 protein; N-acetylglucosamine receptor 1; NAGR1
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	P52272 (A2-A730)
<b>Gene ID:</b>	4670
<b>Molecular Weight:</b>	Approximately 93.4 kDa

### PROPERTIES

#### AA Sequence

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A A G V E A A A E V   A A T E I K M E E E   S G A P G V P S G N   G A P G P K G E G E
R P A Q N E K R K E   K N I K R G G N R F   E P Y A N P T K R Y   R A F I T N I P F D
V K W Q S L K D L V   K E K V G E V T Y V   E L L M D A E G K S   R G C A V V E F K M
E E S M K K A A E V   L N K H S L S G R P   L K V K E D P D G E   H A R R A M Q K V M
A T T G G M G M G P   G G P G M I T I P P   S I L N N P N I P N   E I I H A L Q A G R
L G S T V F V A N L   D Y K V G W K K L K   E V F S M A G V V V   R A D I L E D K D G
K S R G I G T V T F   E Q S I E A V Q A I   S M F N G Q L L F D   R P M H V K M D E R
A L P K G D F F P P   E R P Q Q L P H G L   G G I G M G L G P G   G Q P I D A N H L N
K G I G M G N I G P   A G M G M E G I G F   G I N K M G G M E G   P F G G G M E N M G
R F G S G M N M G R   I N E I L S N A L K   R G E I I A K Q G G   G G G G G S V P G I
E R M G P G I D R L   G G A G M E R M G A   G L G H G M D R V G   S E I E R M G L V M
D R M G S V E R M G   S G I E R M G P L G   L D H M A S S I E R   M G Q T M E R I G S
G V E R M G A G M G   F G L E R M A A P I   D R V G Q T I E R M   G S G V E R M G P A
I E R M G L S M E R   M V P A G M G A G L   E R M G P V M D R M   A T G L E R M G A N
N L E R M G L E R M   G A N S L E R M G L   E R M G A N S L E R   M G P A M G P A L G
A G I E R M G L A M   G G G G G A S F D R   A I E M E R G N F G   G S F A G S F G G A
G G H A P G V A R K   A C Q I F V R N L P   F D F T W K M L K D   K F N E C G H V L Y
A D I K M E N G K S   K G C G V V K F E S   P E V A E R A C R M   M N G M K L S G R E
I D V R I D R N A

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**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<sub>2</sub>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 HNRNPM protein emerges as a crucial pre-mRNA binding protein in vivo, exhibiting a strong affinity for poly(G) and poly(U) RNA homopolymers in vitro. Functionally implicated in splicing processes, HNRNPM plays a significant role in the intricate regulation of RNA maturation. Beyond its involvement in splicing, it acts as a receptor for carcinoembryonic antigen in Kupffer cells, potentially initiating a cascade of signaling events leading to the tyrosine phosphorylation of proteins and the induction of cytokines such as IL-1 alpha, IL-6, IL-10, and tumor necrosis factor alpha. Notably, HNRNPM is identified as a component of the spliceosome C complex, underscoring its association with fundamental RNA processing machinery. Moreover, the protein interacts with PPIA/CYPA, further expanding its network of molecular interactions and highlighting its multifaceted role in cellular processes.

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

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