

CIRBP Protein, Mouse (His)

Cat. No.:	HY-P72145
Synonyms:	Cirbp; CirpCold-inducible RNA-binding protein; A18 hnRNP; Glycine-rich RNA-binding protein CIRP
Species:	Mouse
Source:	E. coli
Accession:	P60824 (M1-E172)
Gene ID:	12696
Molecular Weight:	Approximately 24 kDa

PROPERTIES

AA Sequence	<p>M A S D E G K L F V G G L S F D T N E Q A L E Q V F S K Y G Q I S E V V V V K D</p> <p>R E T Q R S R G F G F V T F E N I D D A K D A M M A M N G K S V D G R Q I R V D</p> <p>Q A G K S S D N R S R G Y R G G S A G G R G F F R G G R S R G R G F S R G G G D</p> <p>R G Y G G G R F E S R S G G Y G G S R D Y Y A S R S Q G G S Y G Y R S S G G S Y</p> <p>R D S Y D S Y A T H N E</p>
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.
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>CIRBP, the cold-inducible mRNA binding protein, emerges as a crucial component in the cellular response to genotoxic stress, exerting a protective function by stabilizing transcripts associated with cell survival. This multifaceted protein plays a pivotal role in stress granule (SG) assembly when overexpressed and is essential for the cold-induced suppression of cell proliferation. Its functional versatility includes acting as both a translational repressor and activator, with a specific affinity for the 3'-untranslated regions (3'-UTRs) of stress-responsive transcripts like RPA2 and TXN. Furthermore, CIRBP forms interactions with EIF4G1 and associates with ribosomes, underscoring its involvement in intricate regulatory mechanisms at the molecular level.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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