

Human CIRBP / Cold-inducible RNA-binding Protein (His Tag)

Catalog Number: 14578-H07E



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General Information

Gene Name Synonym:

CIRP; Cirp; R74941

Protein Construction:

A DNA sequence encoding the human CIRBP (Q14011) (Met1-Glu172) was expressed with a polyhistidine tag at the N-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 90 % as determined by SDS-PAGE

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: His

Molecular Mass:

The recombinant human CIRBP consists of 187 amino acids and predicts a molecular mass of 20.5 KDa. It migrates as an approximately 23 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 20mM Tris, 500mM NaCl, 0.25M Imi, 20% glycerol.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

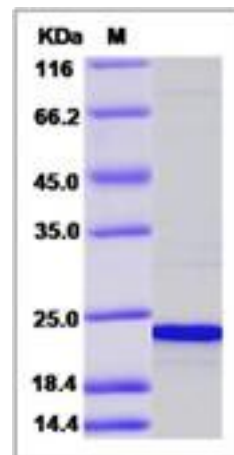
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

CIRBP, also known as cold-inducible RNA-binding protein, plays a protective role in the genotoxic stress response by stabilizing transcripts of genes involved in cell survival. CIRBP responds to a wide array of cellular stresses, including short wavelength ultraviolet light (UVC), at the transcriptional and post-translational level. It acts as a translational activator. CIRBP can bind the 3' translated region of specific transcripts to stabilize them and facilitate their transport to ribosomes for translation. CIRBP affects NF-κB signaling as opposed to IL1B mRNA stability directly.

References

- 1.Artero-Castro A. et al., 2009, Mol Cell Biol. 29 (7): 1855-68.
- 2.Zeng Y. et al., 2009, J Cell Biochem. 107 (1): 179-88.
- 3.Brochu C. et al., 2013, PLoS One. 8 (2): e57426.

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