

## Recombinant Mouse Calreticulin (Calr), N-His

Cat. No.: AP4C796

Product Type: Animal Proteins

Size: 10 µg; 50 µg; 200 µg; 1 mg; 5 mg

### Product Overview

BioVenic's Recombinant Mouse Calreticulin (Calr), N-His is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 14.9 kDa. The purity is > 80%.

### Specifications

|                            |                                                 |
|----------------------------|-------------------------------------------------|
| Type                       | Recombinant Protein                             |
| Species                    | Mouse                                           |
| Expression System          | <i>E.coli</i>                                   |
| Purity                     | > 80%                                           |
| Endotoxin                  | <1.0 EU per 1µg (determined by the LAL method)  |
| Predicted Molecular Weight | 14.9 kDa                                        |
| Physical State             | Lyophilized                                     |
| Formulation                | PBS, pH7.4, containing 0.01% SKL, 5% Trehalose. |

### Target Information

Mouse Calreticulin (Calr) is a multifunctional protein primarily located in the endoplasmic reticulum (ER) lumen, where it serves as a major Ca<sup>2+</sup>-binding chaperone. It plays a crucial role in maintaining ER calcium homeostasis and facilitating the proper folding of newly synthesized proteins. Calr also acts as a transcriptional regulator in the nucleus and influences immune responses and cell adhesion. Additionally, Calr has been implicated in various diseases, including cancer and neurodegenerative disorders.

|                 |                                                                     |
|-----------------|---------------------------------------------------------------------|
| Protein         | Mouse Calreticulin (Calr)                                           |
| Protein Synonym | CRP55; Calregulin; Endoplasmic reticulum resident protein 60; HACBP |
| Gene ID         | <a href="#">12317</a>                                               |
| EC No.          | <a href="#">P14211</a>                                              |

### Shipping and Storage

This product is shipped with ice packs. Lyophilized protein can be stored at -80°C for 1 year. After reconstitution, the protein solution can be stored at 2-8°C for 2-7 days.

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## User Note

Always centrifuge tubes before opening. Avoid mixing by vortexing or pipetting. Reconstitute in 10 mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex. Aliquot the reconstituted solution to minimize freeze-thaw cycles.

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The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.