

## Recombinant Mouse Chromobox Protein Homolog 3 (Cbx3), N-His

**Cat. No.:** AP4C916

**Product Type:** Animal Proteins

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

### Product Overview

BioVenic's Recombinant Mouse Chromobox Protein Homolog 3 (Cbx3), N-His is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 22.4 kDa. The purity is > 97%.

### Specifications

|                            |                                                 |
|----------------------------|-------------------------------------------------|
| Type                       | Recombinant Protein                             |
| Species                    | Mouse                                           |
| Expression System          | <i>E.coli</i>                                   |
| Purity                     | > 97%                                           |
| Endotoxin                  | <1.0 EU per 1µg (determined by the LAL method)  |
| Predicted Molecular Weight | 22.4 kDa                                        |
| Physical State             | Lyophilized                                     |
| Formulation                | PBS, pH7.4, containing 0.01% SKL, 5% Trehalose. |

### Target Information

Mouse Chromobox Protein Homolog 3 (Cbx3) is a key epigenetic regulator involved in gene expression and chromatin dynamics. It belongs to the HP1 family and is crucial for maintaining heterochromatin structure and gene silencing. Cbx3 interacts with histone modifications like H3K9me3 and H3K27me3, influencing chromatin compaction and transcriptional repression. In developmental contexts, Cbx3 supports embryonic stem cell self-renewal and differentiation processes. Additionally, it plays a role in immune regulation, potentially aiding tumor cells in evading the immune system. Its involvement in various signaling pathways, such as Wnt/β-catenin and PI3K/AKT, highlights its multifaceted role in cellular functions.

|                 |                                                                  |
|-----------------|------------------------------------------------------------------|
| Protein         | Mouse Chromobox Protein Homolog 3 (Cbx3)                         |
| Protein Synonym | Heterochromatin protein 1 homolog gamma; M32; Modifier 2 protein |
| Gene ID         | <a href="#">12417</a>                                            |
| EC No.          | <a href="#">P23198</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. 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.