

## Menin Protein, Human (His)

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|-------------------|------------------|
| Cat. No.:         | HY-P702090       |
| Synonyms:         | MEN1; Menin      |
| Species:          | Human            |
| Source:           | E. coli          |
| Accession:        | O00255 (M1-L615) |
| Gene ID:          | /                |
| Molecular Weight: | 68.9 kDa         |

### PROPERTIES

|                     |  |
|---------------------|--|
| Appearance          | Solution.  |
| Formulation         | Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH 8.0, 500 mM NaCl, 5% glycerol.   |
| Endotoxin Level     | <1 EU/µg, determined by LAL method.  |
| Reconstitution      | Please use rapid thawing with running water to thaw the protein.   |
| Storage & Stability | Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles. |
| Shipping            | Shipping with dry ice.   |

### DESCRIPTION

|            |  |
|------------|--|
| Background | <p>Menin emerges as a pivotal component within the MLL/SET1 histone methyltransferase (HMT) complex, wielding specificity in methylating 'Lys-4' of histone H3 (H3K4) and thereby acting as a transcriptional regulator. Its regulatory influence extends to the TERT promoter, where it represses telomerase expression, and to TGFB1-mediated inhibition of cell proliferation, potentially modulating SMAD3 transcriptional activity. Menin's repertoire includes repression of JUND-mediated transcriptional activation on AP1 sites and NFKB subunit RELA, coupled with positive regulation of HOXC8 and HOXC6 gene expression. It may contribute to normal hematopoiesis by activating HOXA9 expression. Additionally, Menin's involvement in DNA repair adds another layer to its functional complexity. Within the MLL-HCF complex and the menin-associated histone methyltransferase complex, Menin collaborates with a network of proteins, such as KMT2A/MLL1, ASH2L, RBBP5, DPY30, WDR5, HCFC1, HCFC2, and others. Noteworthy interactions include those with POLR2B, POLR2A, FANCD2, DBF4, JUND, SMAD3, NFKB1, NFKB2, RELA, and KMT2A, highlighting the intricate web of molecular relationships that underlie Menin's diverse functions.</p> |
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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