

Recombinant MEN1 protein

Catalog No: 82157, 82757

Expressed In: Baculovirus

Quantity: 20, 1000 µg

Source: Human

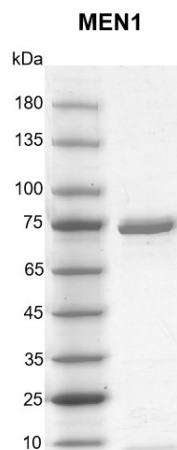
Buffer Contents: Recombinant MEN1 protein is supplied in 25 mM HEPES pH 7.5, 300 mM NaCl, 20% glycerol, 0.04% Triton X-100, 0.5 mM TCEP.

Background: **MEN1 (Multiple Endocrine Neoplasia Type 1)** is a classic tumor suppressor gene encoding the nuclear protein menin. Menin acts as a critical molecular scaffold that regulates key cellular processes including transcription, genome stability, and cell division. It achieves this by orchestrating the assembly of large protein complexes, most notably with histone-modifying enzymes like the MLL/SET1 histone methyltransferase complex. Loss-of-function mutations in **MEN1** disrupt these interactions, leading to dysregulated gene expression, uncontrolled cell proliferation, and ultimately the development of characteristic endocrine and non-endocrine tumors, defining the **MEN** syndrome.

Protein Details: Recombinant MEN1 protein was expressed in baculovirus expression system as the full-length protein (accession number NP_000235.3) with a C-terminal FLAG tag. The molecular weight of the protein is 69.72 kDa.

Application Notes: This product was manufactured as described in Protein Details. Where possible, Active Motif has developed functional or activity assays for recombinant proteins. Additional characterization such as enzyme kinetic activity assays, inhibitor screening or other biological activity assays may not have been performed for every product. All available data for this product is shown.

Storage and Guarantee: Recombinant proteins in solution are temperature sensitive and must be stored at -80°C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. This product is for research use only and is not for use in diagnostic procedures. This product is guaranteed for 6 months from date of arrival.

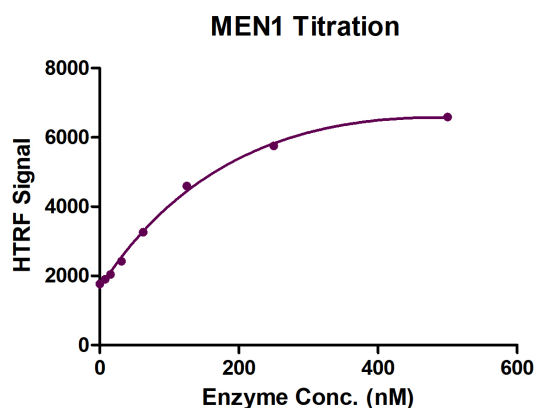


Recombinant MEN1 protein gel

4-20% SDS-PAGE gel

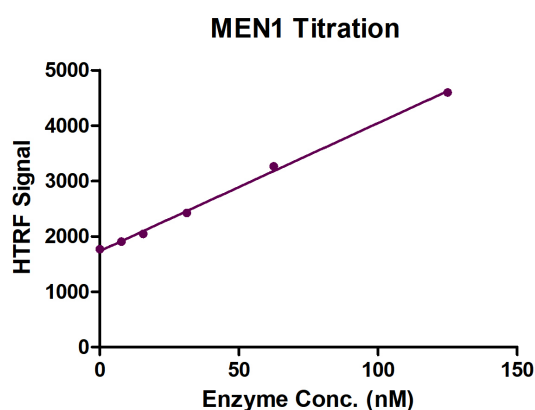
MW:69.72 kDa

Purity: >95%



HTRF assay for MEN1 activity/

3 μ M H3K9me2 (1-21 aa) peptide was incubated with different concentrations of MEN1 protein in reaction buffer containing 50 mM HEPES-NaOH pH 7.0, 0.1% BSA at room temperature for 1 hour. Anti-FLAG antibody was used to detect reaction products.



HTRF assay for MEN1 activity/

3 μ M H3K9me2 (1-21 aa) peptide was incubated with different concentrations of MEN1 protein in reaction buffer containing 50 mM HEPES-NaOH pH 7.0, 0.1% BSA at room temperature for 1 hour. Anti-FLAG antibody was used to detect reaction products.