

Recombinant Human MN1 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50677

Size: 10ug, 100ug

Protein Name: Transcriptional activator MN1 (Probable tumor suppressor protein MN1)

Synonym: MN1

UniProt ID: Q10571

UniProt Link: www.uniprot.org/uniprotkb/Q10571/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 1320 AA

Molecular Weight: 136 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MFGLDQFEPQVNSRNAGQGGERNFNETGLSMNTHFKAPAFHTGGPPGPVDPAMSALGEPPIILGMN
MEPYGFHARGHSELHAGGLQAQPVHGFFGGQQPHHGHHPGSHHHPHQHHPHFGGNFGGPDGASC
LHGGRLLYGGAAGGLGSQPPFAEGYEHMAESQGPESEFGPQRPGNLPDFHSSGASSHAVPAPCL
PLDQSPNRAASFHGLPSSSGSDSHSLEPRRVTNQGAVDSLEYNYPGEAPSGHFDMFSPSDSEGQL
PHYAAGRQVPGGAFPGASAMPRAAGMVGLSKMHAQPPQQQPQQQQPQQQQQQQHGVFFERFS
GARKMPVGLPSVGSRHPLMQPPQQAPPPQQPPQQPPQQPPPPGLLVRQNSCAPPALPRPQ
QGEAGTPSGGLQDGGPMLPSQHAQFEYPIHRLNRSMPYSEPVFSMQHPPPPQAPNQRLQHFD
APPYMNVAKRPRFDFPGSAGVDRCASWNGSMHNGALDNHLSPSAYPGLPGEFTPPVPDSFSPSGP
PLQHPAPDHQSLQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQRQNAALMIKQMASRNQQQRLR
QPNLAQLGHPGDVGQGGVLHGGPVGGLAQPNFEREGGSTGAGRLGTFEQQAPHLAQESAWFSG
PHPPPGDLLPRRMGGSGLPADCGPHDPSLAPPPPPGGSGVLFGRPLQEPMRMPGEGHVPALPSP
GLQFGGSLGGLGQLQSPGAGVGLPSAASERRPPPPDFATSALGGQPGFPFGAAGRQSTPHSGPG
VNSPPSAGGGGGSSGGGGGGGAYPPQPDFQPSQRTSASKLGALSLGSFNKPSSKDNLFGQSCLA
ALSTACQNMIASLGAPNLNVTFNKKNPPEGKRKLSQNETDGAAGVAGNPGSDYFPGGTAPGAPGPG
GPSGTSSSGSKASGPPNPPAQGDGTSLSPPNYTLESTSGNDGKPVSGGGGRGRGRRRKRD SGHVSP
GTFFDKYSAAPDSGGAPGVSPGQQQASGAAVGGSSAGETRGAPTPEKALTPSWGKGAEALLG
DQPDIGSLDGGAKSDSSSPNVGEFASDEVSTSYANEDEVSSSSDNPNQALVKASRSPLVTGSPKLP
PRGVGAGEHGP KAPPPALGLGIMSNTSTPDSYGGGGGPGHPGTPGLEQVVRTPTSSSGAPPPDEI
HPLEILQAQIQLQRQQFSISEDQPLGLKGGKKGECavgasgaqngdSELGSCCSEAVKSAMSTIDLD



SLMAEHSAAWYMPADKALVDSADDDKTLAPWEKAKPQNPNSKEAHDLPANKASASQPGSHLQCLS
VHCTDDVGDARASVPTWRSLHSDISNRFGTFVAALT

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Transcriptional activator MN1 (Probable tumor suppressor protein MN1) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Transcriptional activator which specifically regulates expression of TBX22 in the posterior region of the developing palate. Required during later stages of palate development for growth and medial fusion of the palatal shelves. Promotes maturation and normal function of calvarial osteoblasts, including expression of the osteoclastogenic cytokine TNFSF11/RANKL. Necessary for normal development of the membranous bones of the skull (By similarity). May play a role in tumor suppression (Probable).

Subcellular Localization: Nucleus .

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.