

Recombinant Mouse MN1 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52021

Size: 10ug, 100ug

Protein Name: Transcriptional activator MN1

Synonym: Mn1

UniProt ID: D3YWE6

UniProt Link: www.uniprot.org/uniprotkb/D3YWE6/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 1297 AA

Molecular Weight: 134 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MFGLDQFEPQINSRHAGQGEGNFNEAGLSMNAHFKAFAFHAGPPTGPVDPAISALGEPPILGLNME
PYGFHARSHSELHAGGLQAQPVHGGFFGGQQPHHSHPGGHHHPHQHHPHFGGNFGGPDPGASCLH
GGRLLGYGGAAGGLGSQPPFAESYEHMAESQGPEGFGPQRPGNLPDFHSSGTSGHAVPAPCLPL
DQSPNRAASFHGLSASSGSDSHSLEPRRVTNQGAVDSLEYNYPPSEPPSGHFDMFSPSDSEGQLPH
YAAGRQVPGGAFPGASAMPRASGMVGLSKMHSQPPQPPPPQQQQPQHGVFFERFGGARKMPVGL
EPAVGSRHPLMQPPQQAPPPPPQPPPPQQPPPPGLLVRQNSCPPALPRPQQGEAGTPSGGLQDG
GPMLPSQHAQFEYPIHRLNRSMPHYSEPVFSMQHPPPPQQAPNQRLQHFDAPPYMNVAKRPRFDF
PGSAGVDRCASWNGSMHNGTLDNQLSPSAYPGLPGEFTPPVPDSFSSGPPLQHPGPDHQSLLQQQ
QQQQQQQQQQQQQQQQQQQQQQQQQQQRQNAALMIKQMASRNQQQRLRQPNAQLGHPGDVGQQG
LVHGGSVGGLAQTNFEREGGSAGAGRLSGFEQQAPHLAQESAWFPGPHPPGDLLPRRMGGAGLP
TDCGPHDPALAPPPAPGGSGVLFRGSLQEPLRMPGEGHVPALASPLQFGGSLAGLGQLQSPGAG
VGLPNAPSERRPPPPDFPAPALGGQPFGPFGSGSRQATPHSAPGVNSPPSAGSGSSGAGGGAYP
PQPDPFQPSQRNSASKLGALSLGSEFNKPSSKDNLFGQSCLAALSTACQNMIASLGAPNLNVTFNKK
PPEGKRKLSQNEPDSAVAAGNPGSDYFPGGTTPGAPGPGGPGSGTSGGGSKASGPPNPPIQGDST
SLSPNYTLESTSGNDGKVPVGGSGRGRGRRRKRDSGHVSPGTFFDKYSTAPDSGGAPGVSPGQQQ
APGSAAGGSSVNEARGPTPEKALTSPSWGKGAELLLGDQPDLMASLDSTAKSDGSSPHVGEFAS
DEVSTSYANEDEVSSSSDNTTALAKASRSPLVTSSPKLPPRGVGAGEHTPKASALGLILSTSTSTP
DSYGGGVGTGHPGTPGLEQVRTPTSSSGAQPPDEIHPLEILQAQIQLRQQFSISEDQPLGLKGSKK
AECAVGASGAQNGDSELGSCCSEAVKSAMSTIDLDSLMAEHSTTWYMPDPKALVDGGDEDKTLAP



WEKAKSQNPNNKEAHDHPTNKASATQPGSHLQCLTVHCTDGDGPKARTSVPTWRSLSLHSDISNRFGT
FVAALT

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 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 (PubMed:18948418). Required during later stages of palate development for normal growth and medial fusion of the palatal shelves (PubMed:18948418). Promotes maturation and normal function of calvarial osteoblasts, including expression of the osteoclastogenic cytokine TNFSF11/RANKL (PubMed:19386590). Necessary for normal development of the membranous bones of the skull (PubMed:15870292). May play a role in tumor suppression (By similarity).

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.