

Recombinant Human HDAC9 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50401

Size: 10ug, 100ug

Protein Name: Histone deacetylase 9 (HD9) (EC 3.5.1.98) (Histone deacetylase 7B) (HD7) (HD7b) (Histone deacetylase-related protein) (MEF2-interacting transcription repressor MITR)

Synonym: HDAC9, HDAC7, HDAC7B, HDRP, KIAA0744, MITR

UniProt ID: Q9UKV0

UniProt Link: www.uniprot.org/uniprotkb/Q9UKV0/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 1011 AA

Molecular Weight: 111 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MHSMISSVDVKSEVPVGLPISPLDLRTDLRMMMPVVDPPVREKQLQQEQLLIQQQQQIQKQLLIAEF
QKQHENLTRQHQAQLQEHIKELLAIKQQQELLEKEQKLEQQRQEQUEVERHRREQQLPPLRGKDRG
RERAVASTEVEKQKLQEFLLSKSATKDTPTNGKNHVSRRHPKLWYTAHHTSLDQSSPPLSGTSPSY
KYTLPGAQDAKDDFPLRKTASEPNLKVRSRLKQKVAERRSSPLLRRKDGNVVTSEFKKRMFEVTESS
VSSSSPGSGPSSPNNGPTGSVTENETSVLPPTPHAEQMVSQQRILIHEDSMNLLSLYTSPSLPNITLG
LPAVPSQLNASNSLKEKQKCETQTLRQGVPLPGQYGGSSIPASSSSHVHTLEGKPPNSSHQALLQHL
LLKEQMRQKQLLVAGGVPLHPQSPLATKERISPGIRGTHKLPRHRPLNRTQSAPLPQSTLAQLVIQQ
QHQQFLEKQKQYQQQIHMNKLLSKSIEQLKQPGSHLEEAEEELQGDQAMQEDRAPSSGNSTRSDS
SACVDDTLGQVGAVKVKEEPVDSDEDAQIQEMESGEQAQAFMQQPFLEPTHTRALSVRQAPLAAVG
MDGLEKHRLVSRTHSSPAASVLPHPAMDRPLQPGSATGIAYDPLMLKHQCVCGNSTTHPEHAGRIQ
SIWSRLQETGLLNKCEIRIQGRKASLEEIQLVHSEHSLLYGTNPLDGQKLDPRILLGDDSQKFFSSLP
CGGLGVDSDTIWNELHSSGAARMVGCVIELASKVASGELKNGFAVVRPPGHHAEESTAMGFCFFN
SVAITAKYLRDQLNISKILIVDLVDVHHGNGTQQAFYADPSILYISLHRYDEGNFFPGSGAPNEVGTGLG
EGYNINIAWTGGLDPPMGDVEYLEAFRTIVKPVAKFDPDMVLVSAGFDALEGHTPPLGGYKVTAKC
FGHLTKQLMTLADGRVVLALALEGGHDLTAICDASEACVNALLGNELEPLAEDILHQSPNMNAVISLQKII
EIQSMSLKFS

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 Histone deacetylase 9 (HD9) (EC 3.5.1.98) (Histone deacetylase 7B) (HD7) (HD7b) (Histone deacetylase-related protein) (MEF2-interacting transcription repressor MITR) 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: Responsible for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4). Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events. Represses MEF2-dependent transcription.; Isoform 3 lacks active site residues and therefore is catalytically inactive. Represses MEF2-dependent transcription by recruiting HDAC1 and/or HDAC3. Seems to inhibit skeletal myogenesis and to be involved in heart development. Protects neurons from apoptosis, both by inhibiting JUN phosphorylation by MAPK10 and by repressing JUN transcription via HDAC1 recruitment to JUN promoter.

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.