

Recombinant human Histone deacetylase 7

Catalog No: #AP72361



Package Size: #AP72361-1 20ug #AP72361-2 100ug #AP72361-3 1mg

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Description

Product Name	Recombinant human Histone deacetylase 7
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:645-915aaSequence Info:Partial
Other Names	Histone deacetylase 7A ;HD7a
Accession No.	Q8WUI4
Uniprot	Q8WUI4
GeneID	51564;
Calculated MW	33 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	VTDLAFKVASRELKNGFAVVRPPGHHADHSTAMGFCFFNSVAIACRQLQQSKASKILIVDWDVHHGNGTQQ TFYQDPSVLYISLHRHDDGNFFPGSGAVDEVGAGSGEGFNVNAWAGGLDPPMGDPEYLAAFRIVVMPIARE FSPDLVLSAGFDAAEGHPAPLGGYHVSACKCFGYMTQQLMNLAGGAVVLALEGGHDLTAICDASEACVAALL GNRVDPLSEEGWKQKPNLNAIRSLEAVIRVHSKYWGCMQRLASCPDSWVPRVPGA
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

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. Histone deacetylases act via the formation of large multiprotein complexes. Involved in muscle maturation by repressing transcription of myocyte enhancer factors such as MEF2A, MEF2B and MEF2C. During muscle differentiation, it shuttles into the cytoplasm, allowing the expression of myocyte enhancer factors . May be involved in Epstein-Barr virus (EBV) latency, possibly by repressing the viral BZLF1 gene. Positively regulates the transcriptional repressor activity of FOXP3 .

References

"The finished DNA sequence of human chromosome 12."

Scherer S.E., Muzny D.M., Buhay C.J., Chen R., Cree A., Ding Y., Dugan-Rocha S., Gill R., Gunaratne P., Harris R.A., Hawes A.C., Hernandez J., Hodgson A.V., Hume J., Jackson A., Khan Z.M., Kovar-Smith C., Lewis L.R. Gibbs R.A.Nature 440:346-351(2006)Research Topic:Transcription

Note: This product is for in vitro research use only