

Recombinant Human HDAC3 Protein (1-428 aa), His-SUMO-tagged

Cat. No. HDAC3-550H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HDAC3 Protein (1-428 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Research Area: Transcription. Protein Description: Full Length.
Species	Human
Source	E.coli
ProteinLength	1-428 aa
Description	Responsible for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4), and some other non-histone substrates. 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. Participates in the BCL6 transcriptional repressor activity by deacetylating the H3 'Lys-27' (H3K27) on enhancer elements, antagonizing EP300 acetyltransferase activity and repressing proximal gene expression. Probably participates in the regulation of transcription through its binding to the zinc-finger transcription factor YY1; increases YY1 repression activity. Required to repress transcription of the POU1F1 transcription factor. Acts as a molecular chaperone for shuttling phosphorylated NR2C1 to PML bodies for sumoylation. Contributes, together with XBP1 isoform 1, to the activation of NFE2L2-mediated HMOX1 transcription factor gene expression in a

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	PI3K/mTORC2/Akt-dependent signaling pathway leading to endothelial cell (EC) survival under disturbed flow/oxidative stress.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	64.8 kDa
AA Sequence	MAKTVAYFYDPDVGNFHYGAGHPMKPHRLALTHSLVLHYGLYKKMIVFKPYQASQH DMCRFHSEDIYIDFLQRVSPNTMQGFTKSLNAFNVGDGCPVFPGLFEFCSTRYTASL QGATQLNNKICDIANWAGGLHHAKKFEASGFCYVNDIVIGILELLKYHPRVLYIDIDIH HGDGVQEAFFLTDRVMTVSFHKYGNFYFFPGTGDMYEVGAESGRYYCLNVPLRDGI DDQSYKHLFQPVINQVDFYQPTCIVLQCGADSLGCDRLGCFNLSIRGHGECVEYV KSFNIPLLVLGGGGYTVRNVARCWYETSLLEEAESELPYSEYFEYFAPDFTLHPD VSTRIENQNSRQYLDQIRQTIFENLKMNLHAPSVQIHDVPADLLTYDRTDEADAEER GPEENYSRPEAPNEFYDGDHNDKESDVEI
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with concentration instruction is sent along with the products.

GENE INFORMATION

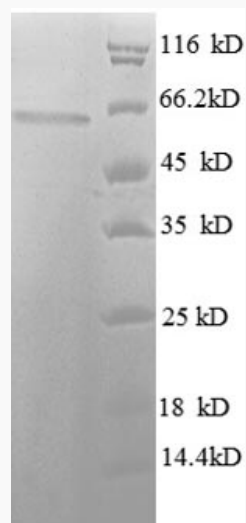
Gene Name HDAC3 histone deacetylase 3 [Homo sapiens]

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Official Symbol	HDAC3
Synonyms	HDAC3; HD3; RPD3; RPD3 2; SMAP45; RPD3-2;
Gene ID	8841
mRNA Refseq	NM_003883
Protein Refseq	NP_003874
MIM	605166
UniProt ID	O15379



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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