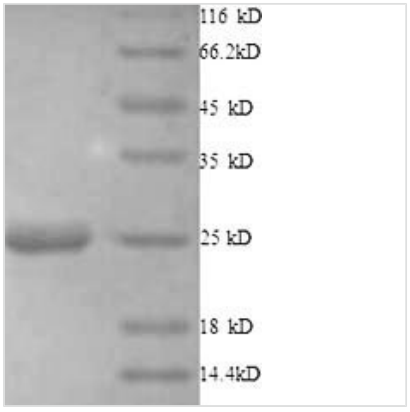
Recombinant Human Histone deacetylase 7 (HDAC7), partial

Product Code	CSB-EP010243HU1(F5)
Relevance	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 .
Abbreviation	Recombinant Human HDAC7 protein, partial
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.
Uniprot No.	Q8WUI4-7
Product Type	Recombinant Proteins
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	PGADGTQVSPGAHYCSPTGAGCPRPCADTPGPQPQPMDLRVGQRPPVEPP PEPTLLALQRPQRLHHHLFLAGLQQQRSVEPMRLSMDTPMPELQVGPQEQEL RQLLHKDKSKRSAVASSVVKQKLAEVILKKQQAALERTVHPNSPGIPYRTLEPL ETEGATRSMLSSFLPPVPSLPSDPPEHFPLRKTVSEPNLKLRYK
Research Area	Transcription
Source	E.coli
Target Names	HDAC7
Expression Region	4-203aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	26kDa
Protein Length	Partial of Isoform 7
Image	



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

Description

In e.coli cells, the generation of recombinant Human HDAC7 protein involves cloning a DNA fragment encoding the Human HDAC7 protein (4-203aa) into a plasmid vector, which is then transferred into the e.coli cells. Positive cells are selected, cultured, and induced to express the HDAC7 protein. A N-terminal 6xHis tag is attached to the protein. Lysis of the cells allows for the harvest of the recombinant Human HDAC7 protein. The collected recombiant Human HDAC7 protein is subjected to affinity purification and is identified using SDS-PAGE and subsequent staining of the gel with Coomassie Brilliant Blue. Its purity is greater than 90%.

Shelf Life

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