

HDAC8 Protein, Human (sf9, GST)

Cat. No.:	HY-P75145
Synonyms:	Histone deacetylase 8; HD8; HDAC8; HDACL1; CDA07
Species:	Human
Source:	Sf9 insect cells
Accession:	Q9BY41 (M1-V377)
Gene ID:	55869
Molecular Weight:	Approximately 68 kDa

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution
Formulation	Supplied as a 0.2 µm filtered solution of 50 mM Tris, 100 mM NaCl, 0.5 mM PMSF, 10% Glycerol, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

DESCRIPTION

Background

HDAC8 Protein, a histone deacetylase, catalyzes the deacetylation of lysine residues located on the N-terminal region of core histones, namely H2A, H2B, H3, and H4, as supported by various studies. This enzymatic activity is crucial in initiating epigenetic repression, playing pivotal roles in transcriptional regulation, cell cycle progression, and developmental events. Acting within large multiprotein complexes, histone deacetylases like HDAC8 contribute to the intricate regulation of chromatin structure and function. Moreover, HDAC8 is implicated in the deacetylation of the cohesin complex protein SMC3, influencing the release of cohesin complexes from chromatin. Notably, HDAC8 may also play a role in smooth muscle cell contractility. Expanding its enzymatic repertoire, HDAC8 exhibits protein-lysine deacylase activity, specifically functioning as a protein decrotonylase by mediating the decrotonylation of histones, particularly crotonylation at lysine residues ((2E)-butenoyl).

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA