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37-1132: Human HDAC3 / Histone deacetylase 3 Recombinant Protein (His & GST Tag)(Discontinued)

Reactivity: Human

Alternative Name: HD3 Protein, RPD3 Protein, RPD3-2 Protein,

Description

Source: Baculovirus-Insect Cells

Histone Deacetylases (HDACs) are a group of enzymes closely related to sirtuins. They catalyze the removal of acetyl groups from lysine residues in histones and non-histone proteins, resulting in transcriptional repression. In general, they do not act autonomously but as components of large multiprotein complexes, such as pRb-E2F and mSin3A, that mediate important transcription regulatory pathways. There are three classes of HDACs; classes 1, 2 and 4, which are closely related Zn2+dependent enzymes. HDACs are ubiquitously expressed and they can exist in the nucleus or cytosol. Their subcellular localization is effected by protein-protein interactions (for example HDAC-14.3.3 complexes are retained in the cytosol) and by the class to which they belong (class 1 HDACs are predominantly nuclear whilst class 2 HDACs shuttle between the nucleus and cytosol). HDACs have a role in cell growth arrest, differentiation and death and this has led to substantial interest in HDAC inhibitors as possible antineoplastic agents. Histone Deacetylases (HDACs) is Responsible for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2, 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. 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.

Product Info

Amount: Human HDAC3 / Histone deacetylase 3 Recombinant Protein (His & GST Tag)(Discontinued) / 50

μg

Purification: > 90 % as determined by SDS-PAGE

Formulation Lyophilized from sterile 20mM Tris, 500mM NaCl, 4mM GSH, pH 7.4

Content: Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before

lyophilization.

Storage condition:

Storage condition:

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be

aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Amino Acid: Met1-lle428

Application Note

Endotoxin :< 1.0 EU per ̸µg of the protein as determined by the LAL method

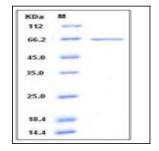


Fig 1: Human HDAC3 / Histone deacetylase 3 Recombinant Protein (His & GST Tag)