

Protein deacetylase; any enzyme that removes acetyl groups from lysine amino acids in proteins.

The main ones are histone deacetylases (HDACs) and sirtuins (SIRT1,2,3,5).

Because histone proteins were the first known substrate for protein deacetylases the later all tend to be called HDACs of one class or another.

Human protein deacetylase enzymes have been categorized into

Class I (HDAC1,2,3,8);
Class II (HDAC4,5,6,7,9,10),
Class III (SIRT1,2,3,5,6),
Class IV (HDAC11 and its related enzymes).

Class III are the NAD⁺-dependent protein deacetylases.

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