

Active SIRT6 (His-tagged), human recombinant protein
SIRT6, NAD-dependent Deacetylase Sirtuin-6; Mono-ADP-ribosyltransferase Sirtuin 6; SIR2-like Protein
Catalog # PBV11275r

Specification

Active SIRT6 (His-tagged), human recombinant protein - Product info

Primary Accession	Q8N6T7
Concentration	1
Calculated MW	Human SIRT6 is a 41.3 kDa (1-355 aa + N-terminal polyhistidine tag) protein. It runs as ~30 kDa during SEC and ~47 kDa on a SDS-PAGE. KDa

Active SIRT6 (His-tagged), human recombinant protein - Additional Info

Gene ID	51548
Gene Symbol	SIRT6
Other Names	
SIRT6, NAD-dependent Deacetylase Sirtuin-6; Mono-ADP-ribosyltransferase Sirtuin 6; SIR2-like Protein 6; SIR2L6	
Gene Source	Human
Source	E.coli
Assay&Purity	SDS-PAGE; ≥90%
Assay2&Purity2	HPLC;
Recombinant	Yes
Results	>3 mU/mg
Target/Specificity	
SIRT6	

Format

Liquid

Storage

-80°C; Human SIRT6 protein is a solution of 1 mg/ml in 50 mM Tris, 100 mM NaCl, pH 8.0 containing 20% glycerol.

Active SIRT6 (His-tagged), human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)

- [Flow Cytometry](#)
- [Cell Culture](#)

Active SIRT6 (His-tagged), human recombinant protein - Images**Active SIRT6 (His-tagged), human recombinant protein - Background**

Human Sirtuins function as intracellular regulatory proteins with mono-ADP-ribosyltransferase activity. Sirtuin 6 (SIRT6) is a NAD-dependent protein deacetylase with activity towards Lys-9 and Lys-56 of histone H3. It modulates acetylation of histone H3 in telomeric chromatin during the S-phase of the cell cycle. It is required for genomic stability and for normal IGF1 serum levels and normal glucose homeostasis. It also regulates cellular senescence and apoptosis. Unlike most sirtuins, SIRT6 preferentially removes long-chain fatty-acyl, rather than acetyl, protein modifications. This activity regulates secretion of the inflammation-associated protein TNF- α .

Active SIRT6 (His-tagged), human recombinant protein - References

Frye R.A., et al. Biochem. Biophys. Res. Commun. 273:793-798(2000).
Ota T., et al. Nat. Genet. 36:40-45(2004).
Ebert L., et al. Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
Grimwood J., et al. Nature 428:529-535(2004).
Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.