



Product Datasheet

Product Name	Sirtuin-6 Human Recombinant
Cata No	CB500903
Source	<i>Escherichia Coli.</i>
Synonyms	Mono-ADP-ribosyltransferase sirtuin-6, SIR2-like protein 6, SIRT6, SIR2L6, Sirtuin-6.

Description

SIRT6 is part of the sirtuin family of proteins (Class IV), homologs to the yeast Sir2 protein. SIRT6 is characterized by a sirtuin core domain. Yeast sirtuin proteins are recognized by their ability to regulate epigenetic gene silencing and suppress recombination of rDNA. SIRT6, a chromatin-associated protein is involved in DNA repair. Human Sirtuins function as intracellular regulatory proteins with mono-ADP-ribosyltransferase activity.

SIRT6 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 375 amino acids (1-355 a.a.) and having a molecular mass of 41 kDa. Recombinant SIRT6 is fused to 20 amino acids His-tag at N-terminus and purified by conventional chromatography techniques.

Physical Appearance

Sterile Filtered colorless solution.

Purity

Greater than 95.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

Formulation

The SIRT6 protein solution contains 20mM Tris-HCl pH-8 & 10% glycerol.

Stability

SIRT6 although stable 4°C for 4 weeks, should be stored desiccated below -18°C.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Please prevent freeze-thaw cycles.

Sequence

MGSSHHHHHH SSGLVPRGSH MSVNYAAGLS
PYADKGKCGL PEIFDPPEEL ERKVVELARL
VWQSSSVVFH TGAGISTASG IPDFRGPBGV
WTMEERGLAP KFDITFESAR PTQTHMALVQ
LERVGLLRFL VSQNV DGLHV RSGFPRDKLA
ELHGNMFVEE CAKCKTQYVR DTVVGTMLGL
ATGRLCTVAK ARGLRACRGE LRDTILDWED
SLPDRDLALA DEASRNADLS ITLGTSLQIR
PSGNLPLATK RRGRLVIVN LQPTKHDRHA
DLRIHG YVDE VMTRLMEHLG LEIPAWDGPR
VLERALPPLP RPPTPKLEPK EESPTRINGS
IPAGPKQEPC AQHNGSEPAS PKRERPTSPA
PHRPPKRVKA KAVPS.