

SIRT1, 254-495aa, Human, His tag, E.coli

Cat.NO.: TP03943

3th Edition

Synonyms:Sirtuin 1, Sirtuin (silent mating type information regulation 2 homolog) 1 (*S. cerevisiae*), SIR2L1

Description:SIRT1 is a member of the sirtuin family of proteins, homologs to the yeast Sir2 protein. Members of the sirtuin family are characterized by a sirtuin core domain and grouped into four classes. The functions of human sirtuins have not yet been determined; however, yeast sirtuin proteins are known to regulate epigenetic gene silencing and suppress recombination of rDNA. Studies suggest that the human sirtuins may function as intracellular regulatory proteins with mono-ADP-ribosyltransferase activity. Alternative splicing results in multiple transcript variants. Recombinant human SIRT1 protein, fused to His-tag at N-terminus, was expressed in *E.coli* .

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M Urea

Molecular Weight:31.6 kDa (280 aa)

Sequences:

MRGSHHHHHHGMASMTGGQQMGRDLYDDDDKDRWGSHMKKIIVLTGAGVSVSCGIPDFRSRDGIYARLAVDFPD
LPDPQAMFDIEYFRKDPRPFFKFAKEIYPGQFQPSLCHKFIALSDKEGKLLRNYTQNIDTLEQVAGIQRIIQCHGSFAT
ASCLICKYKVDCEAVRGDIFNQVPRCPRCPADEPLAIMKPEIVFFGENLPEQFHRAMKYDKDEVDLLIVIGSSSLKVR
PVALIPSSIPHEVPQILINREPLPHLHFDVELLGDCDVIINELCHRLGG

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.