Recombinant human Sirtulin 6/SIRT6 protein

Catalog Number: SIR0901

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-355aa

UniProt No.
Q8N6T7

NCBI Accession No.
NP_057623

Alternative Names
NAD-dependent protein deacylase sirtuin-6, Protein mono-ADP-ribosyltransferase sirtuin-6, Regulatory protein SIR2 homolog 6, SIR2-like protein 6, SIR2L6

PRODUCT SPECIFICATION

Molecular Weight
41 kDa (375aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 20% glycerol, 1mM DTT, 0.1M NaCl, 0.1mM PMSF

Purity
> 95% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
The SIRT6 is included in class IV of the sirtuin family, homologs to the yeast Sir2 protein. The functions of human sirtuins have not yet been determined; however, in yeast sirtuins are known to regulate epigenetic gene silencing. Also SIRT6, a chromatin-associated protein, appears to be involved in DNA repair. Recombinant SIRT6, fused to His-tag at N-terminus, was expressed in E. coli and purified by conventional chromatography techniques.

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Amino acid Sequence

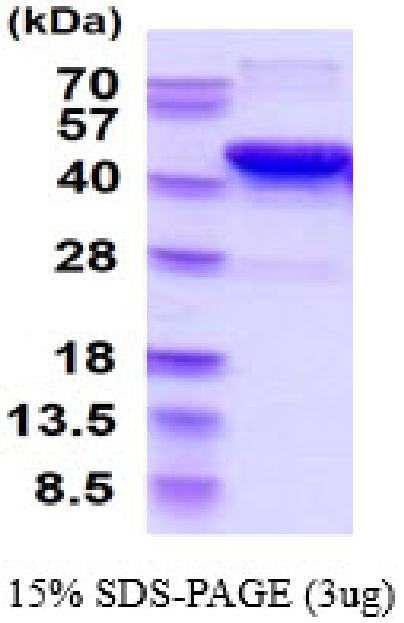
<MGSSHHHHHH SSGLVPRGSH> MSVNYAAGLS PYADKGKCGL PEIFDPPEEL ERKVWELARL VWQSSSVVFH TGAGISTASG IPDFRGPHGV WTMEERGLAP KFDTTFESAR PTQTHMALVQ LERVGLLRFL VSQNVDGLHV RSGFPRDKLA ELHGNMFVEE CAKCKTQYVR DTVVGTMGLK ATGRLCTVAK ARGLRACRGE LRDTILDWED SLPDRDLALA DEASRNADLS ITLGTSLQIR PSGNLPLATK RRGGRLVIVN LQPTKHDRHA DLRIHGYVDE VMTRLMKHLG LEIPAWDGPR VLERALPPLP RPPTPKLEPK EESPTRINGS IPAGPKQEPC AQHNGSEPAS PKRERPTSPA PHRPPKRVKA KAVPS

General References

Michishita E., et al. (2008) Nature. 452(7186):492-6.
Mostoslavsky R., et al. (2006) Cell. 124(2):315-29.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.