

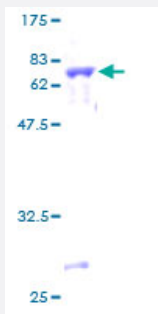
Full-Length

SIRT3 (Human) Recombinant Protein (P01)

Catalog # H00023410-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human SIRT3 full-length ORF (AAH01042, 1 a.a. - 399 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MAFWGWRAAAALRLWGRVVERVEAGGGVGPFQACGCRLVLGGRDDVSAGLRGSHGARGEPL
DPVRPLQRPPRPEVPRAFRRQPRAAAPSSFFSSIKGGRRSISFSVGASSVVGSGSSDKGKLSL
QDVAELIRARACQQRVVVMVGAGISTPSGIPDFRSPGSGLYSNLQQYDLPYPEAIFELPFFFHNPKP
FFTLAKELYPGNYKPNVTHYFLRLLDKGLLLRLYTQNIIDGLERVSGIPASKLVEAHGTFASATCTV
CQRPFPGEDIRADVMADRVPRCPVCTGVVKPDMVFFGEPLPQRFLLHVVDFFPMADLLLILGTSLE
VEPFASLTEAVRSSVPRLLINRDLVGPLAWHPRSRDVAQLGDVVHGVESLVELLWTEEMRDLV
QRETGKLDGPKD

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

69.63

Interspecies Antigen Sequence

Mouse (83); Rat (85)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — SIRT3

Entrez GeneID	23410
GeneBank Accession#	BC001042
Protein Accession#	AAH01042
Gene Name	SIRT3
Gene Alias	SIR2L3
Gene Description	sirtuin (silent mating type information regulation 2 homolog) 3 (S. cerevisiae)
Omim ID	604481
Gene Ontology	Hyperlink
Gene Summary	This gene encodes 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. The protein encoded by this gene is included in class I of the sirtuin family. Two alternatively spliced transcript variants that encode different proteins have been described for this gene. [provided by RefSeq]
Other Designations	mitochondrial nicotinamide adenine dinucleotide-dependent deacetylase silent mating type information regulation 2, S.cerevisiae, homolog 3 sir2-like 3 sirtuin 3 sirtuin type 3

Publication Reference

- [Mitochondrial SIRT3 and its target glutamate dehydrogenase are altered in follicular cells of women with reduced ovarian reserve or advanced maternal age.](#)

Pacella-Ince L, Zander-Fox DL, Lane M.

Human Reproduction 2014 Jul; 29(7):1490.

Application: WB-Ce, Human, Granulosa, Cumulus cells

Disease

- [Alzheimer disease](#)
- [Celiac Disease](#)
- [Diabetes Mellitus](#)
- [Genetic Predisposition to Disease](#)
- [Head and Neck Neoplasms](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)