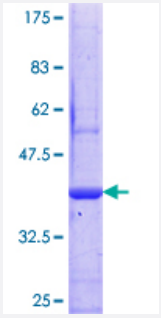
SIRT3 (Human) Recombinant Protein (Q01)

Catalog # H00023410-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human SIRT3 partial ORF (NP_036371.1, 297 a.a. - 399 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	PLPQRFLLHVVDFPMADLLLILGTSLEVEPFASLTEAVRSSVPRLLINRDLVGPLAWHPRSRDVAQ LGDVVHGVESLVELLGWTEEMRDLVQRETGKLDGPDK
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	37.07
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#	NM_012239
Protein Accession#	NP_036371.1
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 cla sses. The functions of human sirtuins have not yet been determined; however, yeast sirtuin protein s 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-ri bosyltransferase activity. The protein encoded by this gene is included in class I of the sirtuin famil y. 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 infor mation regulation 2, S.cerevisiae, homolog 3|sir2-like 3|sirtuin 3|sirtuin type 3

Disease

- Alzheimer disease

- Celiac Disease
- Diabetes Mellitus
- Genetic Predisposition to Disease
- Head and Neck Neoplasms
- Neoplasm Recurrence
- Neoplasms