

Recombinant Human SIRT4, GST-tagged

Cat. No. SIRT4-465H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human SIRT4 (amino acids 25-314) was expressed in an <i>E.coli</i> expression system with N-terminal GST tag. MW=59 kDa.
Species	Human
Source	E.coli
Protein Length	25-314 a.a.
Description	Sirtuin 4, also known as SIRT4 is a protein which in humans is encoded by the SIRT4 gene. This gene encodes a member of the sirtuin family of proteins which are homologs of the Sir2 gene in budding yeast. 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 fully determined; however, yeast sirtuin proteins are known to regulate epigenetic gene silencing and suppress recombination of rDNA.
Formulated In	25 mM Tris-HCl, pH 8.0, 100 mM NaCl, 0.05% Tween-20 and 20% glycerol.
Application	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
Purity	> 90%.
Stability	>6 months at -80°C.

GENE INFORMATION

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Gene Name	SIRT4 sirtuin (silent mating type information regulation 2 homolog) 4 (S. cerevisiae) [Homo sapiens]
Synonyms	sirtuin (silent mating type information regulation 2 homolog) 4 (S. cerevisiae); SIR2L4; MGC57437; MGC130046; MGC130047; SIRT4; sirtuin 4; sir2-like 4; sirtuin type 4; EC 3.5.1.-; SIR2-like protein 4; sirtuin (silent mating type information regulation 2, S.cerevisiae, homolog) 4
Gene ID	23409
mRNA Refseq	NM_012240
Protein Refseq	NP_036372
MIM	604482
UniProt ID	Q9Y6E7
Chromosome Location	12q
Function	NAD binding; NAD+ ADP-ribosyltransferase activity; NAD-dependent protein deacetylase activity; hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds, in linear amides; metal ion binding; protein binding; transferase activity; zinc ion binding