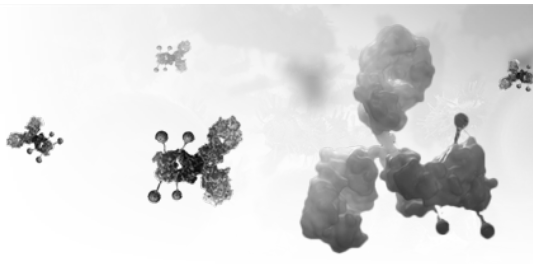

SIRT1 blocking peptide (CDBP6119)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2008]
Conjugate	Unconjugated
Applications	Used as a blocking peptide in immunoblotting applications.
Format	Liquid
Concentration	200 μg/mL
Size	0.05 mg
Preservative	None
Storage	-20°C

GENE INFORMATION

Gene Name	SIRT1 sirtuin 1 [Homo sapiens (human)]
Official Symbol	SIRT1
Synonyms	SIRT1; sirtuin 1; SIR2L1; NAD-dependent protein deacetylase sirtuin-1; hSIR2; hSIRT1; SIR2alpha; sir2-like 1; sirtuin type 1; SIR2-like protein 1; regulatory protein SIR2 homolog 1;

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	NAD-dependent deacetylase sirtuin-1
Entrez Gene ID	23411
mRNA Refseq	NM_001142498
Protein Refseq	NP_001135970
UniProt ID	Q96EB6
Pathway	AMPK signaling pathway; Amphetamine addiction; Androgen receptor signaling pathway; Cellular response to heat stress; Cellular responses to stress; E2F transcription factor network; Energy Metabolism; Epigenetic regulation of gene expression
Function	HLH domain binding; NOT NAD+ ADP-ribosyltransferase activity; NAD+ binding; NAD-dependent histone deacetylase activity; NAD-dependent histone deacetylase activity (H3-K9 specific); NAD-dependent protein deacetylase activity; NAD-dependent protein deacetylase activity; bHLH transcription factor binding; deacetylase activity; enzyme binding; histone binding; histone deacetylase activity; identical protein binding; keratin filament binding; metal ion binding; mitogen-activated protein kinase binding; p53 binding; protein C-terminus binding; protein binding; protein deacetylase activity; transcription corepressor activity; transcription corepressor activity; transcription factor binding

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