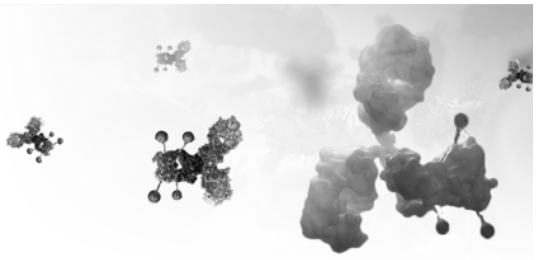

SIRT1 blocking peptide (DAG-P1166)

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]
Specificity	Widely expressed.
Conjugate	Unconjugated
Applications	BL
Sequence Similarities	Belongs to the sirtuin family. Class I subfamily.Contains 1 deacetylase sirtuin-type domain.
Format	Liquid
Buffer	Information available upon request.
Preservative	None
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	SIRT1 sirtuin 1 [Homo sapiens (human)]
Official Symbol	SIRT1

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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; NAD-dependent deacetylase sirtuin-1;
Entrez Gene ID	23411
mRNA Refseq	NM_001142498.1
Protein Refseq	NP_001135970.1
UniProt ID	A8K128
Chromosome Location	10q21.3
Pathway	Amphetamine addiction, organism-specific biosystem; Amphetamine addiction, conserved biosystem; Androgen receptor signaling pathway, organism-specific biosystem; E2F transcription factor network, organism-specific biosystem; Energy Metabolism, organism-specific biosystem; FoxO family signaling, organism-specific biosystem; FoxO signaling pathway, organism-specific biosystem; HIF-2-alpha transcription factor network, organism-specific biosystem; Integrated Breast Cancer Pathway, organism-specific
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 deacetyl

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