



# Human HDAC1 blocking peptide (DAG-P1657)

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

## PRODUCT INFORMATION

<b>Antigen Description</b>	Histone acetylation and deacetylation, catalyzed by multisubunit complexes, play a key role in the regulation of eukaryotic gene expression. The protein encoded by this gene belongs to the histone deacetylase/acuc/apha family and is a component of the histone deacetylase complex. It also interacts with retinoblastoma tumor-suppressor protein and this complex is a key element in the control of cell proliferation and differentiation. Together with metastasis-associated protein-2, it deacetylates p53 and modulates its effect on cell growth and apoptosis. [provided by RefSeq, Jul 2008]
<b>Specificity</b>	Ubiquitous, with higher levels in heart, pancreas and testis, and lower levels in kidney and brain.
<b>Purity</b>	70 - 90% by HPLC.
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	BL
<b>Sequence Similarities</b>	Belongs to the histone deacetylase family. HD type 1 subfamily.
<b>Format</b>	Liquid
<b>Preservative</b>	None
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">HDAC1 histone deacetylase 1 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	HDAC1

<b>Synonyms</b>	HDAC1; histone deacetylase 1; HD1; RPD3; GON-10; RPD3L1; reduced potassium dependency, yeast homolog-like 1;
<b>Entrez Gene ID</b>	<a href="#">3065</a>
<b>mRNA Refseq</b>	<a href="#">NM_004964.2</a>
<b>Protein Refseq</b>	<a href="#">NP_004955.2</a>
<b>UniProt ID</b>	Q13547
<b>Chromosome Location</b>	1p34
<b>Pathway</b>	Alcoholism, organism-specific biosystem; Alcoholism, conserved biosystem; Amphetamine addiction, organism-specific biosystem; Amphetamine addiction, conserved biosystem; Androgen receptor signaling pathway, organism-specific biosystem; Cell Cycle, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, conserved biosystem; Chronic myeloid leukemia, organism-specific biosystem; Chr
<b>Function</b>	NAD-dependent histone deacetylase activity (H3-K14 specific); NAD-dependent histone deacetylase activity (H3-K18 specific); NAD-dependent histone deacetylase activity (H3-K9 specific); NAD-dependent histone deacetylase activity (H4-K16 specific); contribu