

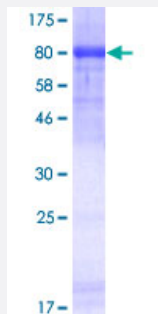
Full-Length

HDAC1 (Human) Recombinant Protein (P01)

Catalog # H00003065-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human HDAC1 full-length ORF (AAH00301, 1 a.a. - 482 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MAQTQGTRRKVCYYDGDVGNYYYGQGHPMKPHRIRMTHNLLLNYGLYRKMEYRPHKANAEEMT
KYHSDDYIKFLRSIRPDNMSEYSKQMQRFNVEDCPVFDGLFEFCQLSTGGSVASAVKLNKQQT
DIAVNWAGGLHHAKKSEASGFCYVNDIVLAILELLKYHQRVLYIDIDIHHGDGVVEAFYTTDRVMTVS
FHKYGEYFPGTGDLRDIGAGKGKYYAVNYPLRDGIDDESIEAIFKPVMSKVMEMFQPSAVVLQCG
SDSLSGDRLGCFNLTIKGHAKCVEFVKSFNLPMLMLGGGGYTIRNVARCWYETAVALDTEIPNEL
PYNDYFEYFGPDFKLHISPSNMTNQNTNEYLEKIKQRLFENLRMLPHAPGVQMQAIPEDAIPESG
DEDEDDPDKRISICSSDKRIACEEEFSDSEEEGEGGRKNSSNFKKAKRVKTEDEKEKDPEEKKE
VTEEEKTKEEKPEAKGVKEEVKLA

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

78.76

Interspecies Antigen Sequence

Mouse (99); Rat (99)

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 — HDAC1

Entrez GeneID	3065
GeneBank Accession#	BC000301
Protein Accession#	AAH00301
Gene Name	HDAC1
Gene Alias	DKFZp686H12203, GON-10, HD1, RPD3, RPD3L1
Gene Description	histone deacetylase 1
Omim ID	601241
Gene Ontology	Hyperlink
Gene Summary	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]
Other Designations	OTTHUMP00000008745 reduced potassium dependency, yeast homolog-like 1

Publication Reference

- [Histone deacetylase-1 is enriched at the platelet-derived growth factor-D promoter in response to interleukin-1beta and forms a cytokine-inducible gene-silencing complex with NF-kappaB p65 and interferon regulatory factor-1.](#)

Liu MY, Khachigian LM.

The Journal of Biological Chemistry 2009 Oct; 284(50):35101.

Application: Func

- [Interaction between HMGA1 and Retinoblastoma Protein Is Required for Adipocyte Differentiation.](#)

Esposito F, Pierantoni GM, Battista S, Melillo RM, Scala S, Chieffi P, Fedele M, Fusco A.

The Journal of Biological Chemistry 2009 Sep; 284(38):25993.

Application: PI, WB-Re, Recombinant protein

Pathway

- [Cell cycle](#)
- [Chronic myeloid leukemia](#)
- [Notch signaling pathway](#)
- [Pathways in cancer](#)

Disease

- [Asthma](#)
- [Cognition Disorders](#)
- [Genetic Predisposition to Disease](#)
- [Huntington disease](#)
- [Mental Status Schedule](#)
- [Neoplasms](#)
- [Ovarian cancer](#)

- [Ovarian Neoplasms](#)
- [Tobacco Use Disorder](#)