

## Product datasheet for **TP300605**

### HDAC3 (NM\_003883) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human histone deacetylase 3 (HDAC3), 20 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone  
or AA Sequence:** >RC200605 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MAKTVAYFYDPDVGNFHYGAGHPMKPHRLALHSLVLHYGLYKMKMIVFKPYQASQHD MCRFHSEDIYDFL  
QRVSPNTMQGFTKSLNAFNVDGDDCPVFPGLFEFCRYTGASLQGATQLNNKICDIANWAGGLHHAKKFE  
ASGFCYVNDIVIGILELLKYHPRVLYIDIDIHHGDGVQEAFLTDRVMTVSFHKYGNYYFPGTGDMYEVG  
AESGRYYCLNVPLRDGIDDQSYKHLFQPVINQWDFYQPTCIVLQCGADSLGCDRLGCFNLSIRGHGECV  
EYVKSFNIPLLVGGGGYTVRNVARCWTYETSLLVEEAISEELPYSEYFEYFAPDFTLHPDVSTRIENQN  
SRQYLDQIRQTIFENLKMLNHAPSVQIHDVPADLLTYDRTDEADAEERGPEENYSRPEAPNEFYDGDHDN  
DKESDVEI

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK

**Predicted MW:** 48.7 kDa

**Concentration:** >0.05 µg/µL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**Storage:** Store at -80°C.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_003874](#)



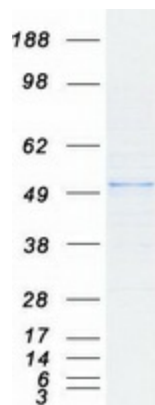
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Locus ID: 8841  
UniProt ID: [O15379](#)  
RefSeq Size: 1965  
Cytogenetics: 5q31.3  
RefSeq ORF: 1284  
Synonyms: HD3; KDAC3; RPD3; RPD3-2

**Summary:** Histones play a critical role in transcriptional regulation, cell cycle progression, and developmental events. Histone acetylation/deacetylation alters chromosome structure and affects transcription factor access to DNA. The protein encoded by this gene belongs to the histone deacetylase/acuc/apha family. It has histone deacetylase activity and represses transcription when tethered to a promoter. It may participate in the regulation of transcription through its binding with the zinc-finger transcription factor YY1. This protein can also down-regulate p53 function and thus modulate cell growth and apoptosis. This gene is regarded as a potential tumor suppressor gene. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome, Transcription Factors

### Product images:



Coomassie blue staining of purified HDAC3 protein (Cat# TP300605). The protein was produced from HEK293T cells transfected with HDAC3 cDNA clone (Cat# [RC200605]) using MegaTran 2.0 (Cat# [TT210002]).