

# Active Recombinant Human Histone Deacetylase 1, His-tagged

**Cat. No.** HDAC1-392H    **Lot. No.** (See product label)

## SPECIFICATION

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>       | HDAC1 was cloned from human brain cDNA and expressed in insect cells using a baculoviral expression system. Full Length Human HDAC1 – Class I, 59 kD with his tag.                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>                | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>                 | Insect Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>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. |
| <b>Purity</b>                 | Purified, active enzyme.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Purification Procedure</b> | Ni <sup>2+</sup> Affinity Column                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Activity</b>               | 1000 units per vial. 1 unit is defined as the amount of enzyme that will convert 1 picomole per minute per ug at pH8 at 30°C.                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Stability/Shelf-life</b>   | >6 months from date of shipment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

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|                            |                                                                                                                                                                               |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Buffer Composition</b>  | 25mM Tris pH8, 120mM NaCl, 0.05% Tween-20 & 40% Glycerol                                                                                                                      |
| <b>Storage</b>             | –80°C                                                                                                                                                                         |
| <b>Full Length</b>         | Full L.                                                                                                                                                                       |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                               |
| <b>Gene Name</b>           | HDAC1 histone deacetylase 1 [ Homo sapiens ]                                                                                                                                  |
| <b>Synonyms</b>            | HDAC1; DKFZp686H12203; GON-10; HD1; RPD3; RPD3L1; histone deacetylase 1; OTTHUMP00000008745; reduced potassium dependency, yeast homolog-like 1; DKFZp686H12203; EC 3.5.1.98. |
| <b>Gene ID</b>             | 3065                                                                                                                                                                          |
| <b>mRNA Refseq</b>         | NM_004964                                                                                                                                                                     |
| <b>Protein Refseq</b>      | NP_004955                                                                                                                                                                     |
| <b>MIM</b>                 | 601241                                                                                                                                                                        |
| <b>UniProt ID</b>          | Q13547                                                                                                                                                                        |
| <b>Chromosome Location</b> | 1p34                                                                                                                                                                          |
| <b>Pathway</b>             | Cell cycle; Chronic myeloid leukemia; Notch signaling pathway; Gene Expression; Signalling by NGF                                                                             |
| <b>Function</b>            | enzyme binding; histone deacetylase activity; hydrolase activity; identical protein                                                                                           |

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binding; transcription activator activity; transcription factor activity; transcription factor binding; transcription factor binding

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