

# Active Recombinant Human Histone Deacetylase 7, GST-tagged

**Cat. No.** HDAC7-398H    **Lot. No.** (See product label)

## SPECIFICATION

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>       | Full Length Human HDAC7–Class IIa, 107kD with GST tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>                | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>                 | Insect Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>            | Histone deacetylase 7, also known as HDAC7, is a human gene. 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 has sequence homology to members of the histone deacetylase family. This gene is orthologous to mouse HDAC7 gene whose protein promotes repression mediated via transcriptional corepressor SMRT. Multiple alternatively spliced transcript variants encoding several isoforms have been found for this gene. |
| <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 1picomole per minute per ug of protein at pH8 at 30°C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Stability/Shelf-life</b>   | >6 months from date of shipment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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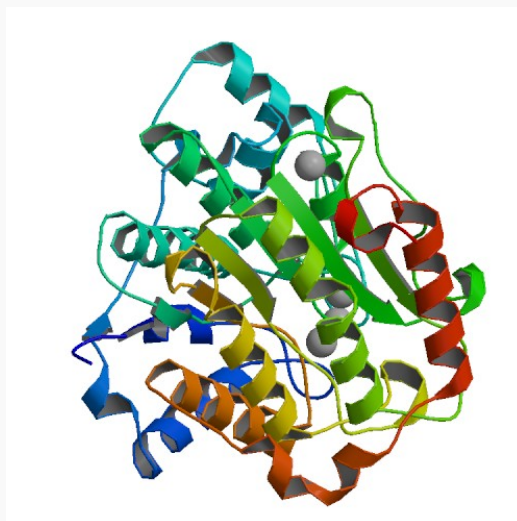
|                            |                                                                                        |
|----------------------------|----------------------------------------------------------------------------------------|
| <b>Buffer Composition</b>  | 25mM Tris pH8, 120mM NaCl, 0.05% Tween-20 & 40% Glycerol.                              |
| <b>Storage</b>             | −80°C                                                                                  |
| <b>Full Length</b>         | Full L.                                                                                |
| <b>GENE INFORMATION</b>    |                                                                                        |
| <b>Gene Name</b>           | HDAC7 histone deacetylase 7 [ Homo sapiens ]                                           |
| <b>Synonyms</b>            | HDAC7A; HDAC7; DKFZP586J0917; histone deacetylase 7; FLJ99588; histone deacetylase 7A. |
| <b>Gene ID</b>             | 51564                                                                                  |
| <b>mRNA Refseq</b>         | NM_015401                                                                              |
| <b>Protein Refseq</b>      | NP_056216                                                                              |
| <b>MIM</b>                 | 606542                                                                                 |
| <b>UniProt ID</b>          | Q8WUI4                                                                                 |
| <b>Chromosome Location</b> | 12q13.1                                                                                |
| <b>Pathway</b>             | Gene Expression                                                                        |
| <b>Function</b>            | histone deacetylase activity; hydrolase activity                                       |

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PDBrendering based  
on 2nvr. Available  
structures: 2nvr, 2pqo, 2p



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