

## Product Information

### HDAC5, active, GST-tagged, mouse recombinant, expressed in Sf9 cells

Catalog Number **SRP5267**  
Storage Temperature  $-70^{\circ}\text{C}$

Synonyms: mHDA1, AI426555, mKIAA0600

#### Product Description

HDAC5 or Histone deacetylase 5 belongs to the class II histone deacetylase/acuc/apha family that possesses histone deacetylase activity and represses transcription when tethered to a promoter.<sup>1</sup> HDAC 5 plays a critical role in transcriptional regulation, cell cycle progression, and developmental events, and also acts as a potential therapeutic target for the prevention of atherosclerosis. HDAC5 can co-immunoprecipitate with HDAC3 family members forming multicomplex proteins. HDAC5 can also interact with myocyte enhancer factor-2 (MEF2) proteins, resulting in repression of MEF2-dependent genes. HDAC5 gene is thought to be associated with colon cancer.<sup>2</sup>

Recombinant mouse HDAC5 (617-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST-tag. The gene accession number is BC060609. It is supplied in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, and 25% glycerol.

Molecular mass: ~80 kDa

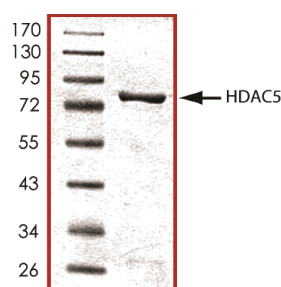
#### Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

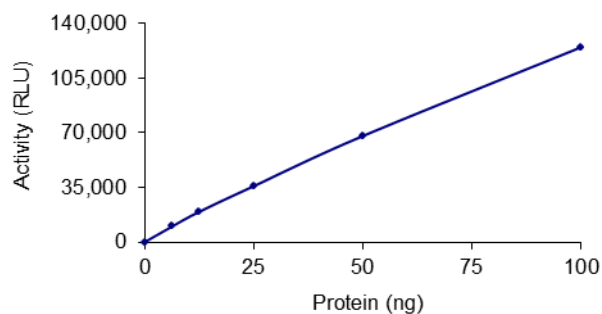
#### Storage/Stability

The product ships on dry ice and storage at  $-70^{\circ}\text{C}$  is recommended. After opening, aliquot into smaller quantities and store at  $-70^{\circ}\text{C}$ . Avoid repeated handling and multiple freeze/thaw cycles.

**Figure 1.**  
SDS-PAGE Gel of Typical Lot:  
 $\geq 70\%$  (SDS-PAGE, densitometry)



**Figure 2.**  
Specific Activity of Typical Lot:  
88–154 RLU/min/ng



Histone deacetylase (HDAC) activity was determined with a luminescent assay procedure.

#### References

1. Grozinger, C.M. et al., Three proteins define a class of human histone deacetylases related to yeast Hda1p. Proc. Nat. Acad. Sci., **96**, 4868-4873 (1999).
2. Scanlan, M.J. et al., Characterization of human colon cancer antigens recognized by autologous antibodies. Int. J. Cancer, **76**, 652-658 (1998).

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