



## human HDAC6 Active Enzyme

### BACKGROUND

Human HDAC6 (GenBank Accession No. BC069243), full length with N-terminal GST tag, MW= 159 kDa, expressed in baculovirus expression system. Responsible for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4). Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events. Histone deacetylases act via the formation of large multiprotein complexes (By similarity). Plays a central role in microtubule-dependent cell motility via deacetylation of tubulin.

### ORDERING INFORMATION

**CATALOG NUMBER**  
X1740E

**SIZE**  
50 µg

**STORAGE CUSTOMER**  
Product should be stored at -70°C.  
Aliquot to avoid freeze/thaw cycles

**STABILITY**  
Products are stable for one year  
from purchase when stored properly

**SHIP CONDITIONS**  
Ship on dry ice, freeze upon arrival

**FORMULATION**  
Formulated in 50 mM Tris-HCl, pH 8.0,  
138 mM NaCl, 20 mM glutathione, and  
10% glycerol.

**CONCENTRATION**  
Lot Specific

**SOURCE**  
Full length with N-Terminal GST tag

### ACTIVITY

Optimal concentration should be evaluated by serial dilutions.

### PURITY

>90% by SDS-PAGE

### ASSAY METHODS

#### MATERIALS

Assay condition: 25 mM Tris/Cl, pH8.0, 137 mM NaCl, 2.7 mM KCl, 1 mM MgCl<sub>2</sub>, and 0.1 mg/ml BSA, 30 µM HDAC substrate and 5 ng/ul HDAC6.

#### PROCEDURE

Incubation condition: 60 min at 30°C.

**For research use only. Not for use in human diagnostics or therapeutics.**

## REFERENCES

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