

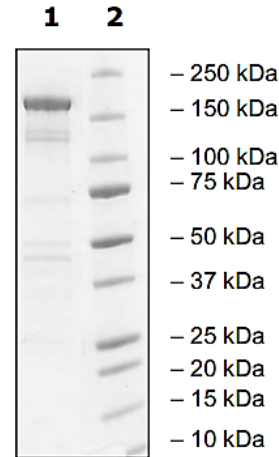
HDAC6, human recombinant

CATALOG #:	7534-10	10 µg
ALTERNATE NAMES:	KIAA0901, JM21, HD6	
SOURCE:	Baculovirus	
PURITY:	≥ 82% by SDS-PAGE gel	
MOL. WEIGHT:	159 kDa (N-terminal GST tag)	
ENDOTOXIN LEVEL:	<1 EU/µg by LAL method	
FORM:	Liquid	
FORMULATION:	In 50 mM Tris-HCl, pH 8.0, 500 mM NaCl, 50 mM KCl, 2 mM EDTA, 10% glycerol, and 2 mM DTT.	
STORAGE CONDITIONS:	Store at -80°C. Avoid repeated freezing and thawing cycles. Stable for 6 months.	

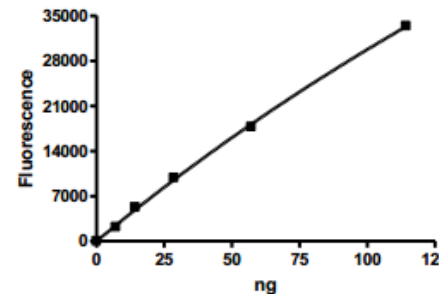
DESCRIPTION: HDAC6 is a Class II HDAC. It is unique among human HDACs in having two full deacetylase domains. As a tubulin deacetylase, HDAC6 may act to promote autophagic clearing of Huntington aggregates and retard HIV1 infection. It can shuttle between the nucleus and cytoplasm, suggesting potential extra nuclear functions by regulating the acetylation status of non-histone substrates. By modifying chromatin structure and other non-histone proteins, HDACs play important roles in controlling complex biological events, including cell development, differentiation, programmed cell death, angiogenesis, and inflammation. Considering these major roles, it is conceivable that dysregulation of HDACs and subsequent imbalance of acetylation and deacetylation may be involved in the pathogenesis of various diseases, including cancer and inflammatory diseases.

BIOLOGICAL ACTIVITY: 560 pmole/min/µg. Assay conditions: 25 mM Tris/HCl, pH 8.0, 137 mM NaCl, 2.7 mM KCl, 1 mM MgCl₂, and 0.1 mg/ml BSA, 20 µM HDAC substrate (Cat # 2396), and HDAC6 (7.8 – 500 ng). Incubation condition: 30 min at 37°C followed by developing for 15 min at room temperature.

APPLICATIONS: Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.



4-20% SDS-PAGE Coomassie staining of the HDAC6 protein in Lane 1 and the protein marker in Lane 2.



HDAC6 Activity

RELATED PRODUCTS:

- HDAC3, human recombinant (Cat. No. 7613-250, -1000)
- HDAC8, human recombinant (Cat. No. 7618-20, -100, -1000)
- HDAC Substrate, Fluorogenic (Cat. No. 2396-5, -25)
- HDAC Substrate, Colorimetric (Cat. No. 2207-25, -100)
- HDAC Substrate II, Colorimetric (Cat. No. 2395-5, -25)
- Tubastatin A (Cat. No. 1724-1, -5)
- Nexturastat A (Cat. No. 2098-1)
- Tubacin (Cat. No. 1984-250, -1000)
- ACY-1215 (Cat. No. 2629-5, -25)

FOR RESEARCH USE ONLY! Not to be used in humans.

