REACTION BIOLOGY

PRODUCT DATASHEET

HDAC1 (Histone Deacetylase 1)

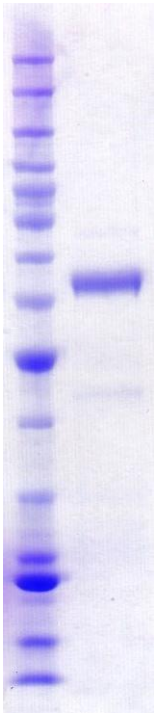
CATALOG NO.: KDA-21-365 **LOT NO.:**

DESCRIPTION: Human recombinant HDAC1 (residues 1-482 (full-length); Genbank Accession # NM_004964.2; MW = 57.2 kDa) expressed with a C-terminal FLAG-His tag in *Sf21* insect cells.

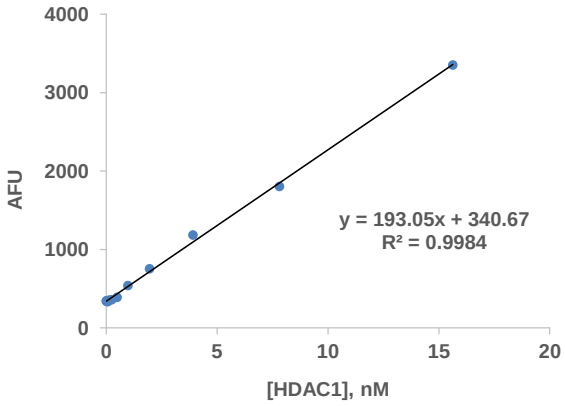
PURITY: >70% by SDS-PAGE

SUPPLIED AS: _ µg/µL in 50 mM Tris/HCl, pH 7.5, 500 mM NaCl, 10% glycerol (v/v)

STORAGE: -70°C. Thaw quickly and store on ice before use. The remaining, unused, undiluted protein should be snap frozen, for example in a dry ice ethanol bath or liquid nitrogen. Minimize freeze/thaws if possible, but very low volume aliquots (<5 µl) or storage of diluted enzyme is not recommended.



Coomassie blue-stained SDS-PAGE (12% acrylamide) of 4 µg of RBC HDAC1 (FLAG-His). NOTE: HDAC1 (57.2 kDa) migrates anomalously at an apparent ~63 kDa in SDS-PAGE. MW markers (left) are, from top, 220, 160, 120, 100, 90, 80, 70, 60, **50**, 40, 30, 25, **20**, 15, 10 kDa.



Assay of HDAC1 Lysine Deacetylase Activity. Reactions were 60 min., 37°C with 50 µM RHK-K(Ac)-AMC as substrate. Fifty µL reactions were performed in a white 96-well plate (Corning 3992) and fluorescence read, after development, in a 'Fluoroskan Ascent FL' fluorimeter (Thermo). Slope of the plot (193.05 AFU/nM/60 min.) corresponds to a turnover number of 5.65 min^{-1} or a specific activity of 98.8 pmol/min./µg under these conditions. (Calculated from an AMC standard curve, slope = 569 AFU/µM.)

Reaction Biology
1 Great Valley Parkway, Malvern PA, USA 19355
requests@reactionbiology.com www.reactionbiology.com