

# Recombinant human Histone Deacetylase 8/HDAC8 protein

Catalog Number: ATGP1329

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

1-377aa

### UniProt No.

Q9BY41

### NCBI Accession No.

NP\_060956

### Alternative Names

Protein deacetylase HDAC8, Protein decrotonylase HDAC8, Wilson-Turner X-linked mental retardation syndrome HDACL1, CDA07, WTS, MRXS6, RPD3, KDAC8

## PRODUCT SPECIFICATION

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### Molecular Weight

42.6 kDa (383aa)

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT

### Purity

> 80% by SDS-PAGE

### Endotoxin level

<1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

HDAC8, also known as histone deacetylase 8, belongs to class 1 of the histone deacetylase/acuc/apha family. This protein is biologically involved in skull morphogenesis and metabolic control of the ERR-alpha/PGC1-alpha transcriptional complex. Histones play a critical role in transcriptional regulation, cell cycle progression, and

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developmental events. Histone acetylation/deacetylation alters chromosome structure and affects transcription factor access to DNA. Recombinant human HDAC8 protein, fused to His-tag at C-terminus, was expressed in Sf9 insect cell and purified by using conventional chromatography.

## Amino acid Sequence

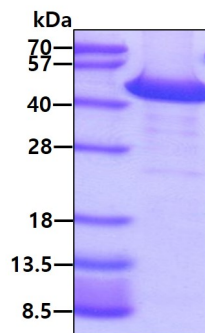
MEEPEEPADS GQSLVPVYIY SPEYVSMCDS LAKIPKRASM VHSLIEAYAL HKQMRIVKPK VASMEEMATF HTDAYLQHLQ  
KVSQEGDDDH PDSIEYGLGY DCPATEGIFD YAAAIGGATI TAAQCLIDGM CKVAINWSSG WHHAKKDEAS GFCYLNDVAVL  
GILRLRRKFE RILYVDLDLH HGDGVEDAFS FTSKVMTVSL HKFSPGFFPG TGDVSDVGLG KGRIYSVNVP IQDGIQDEKY  
YQICESVLKE VYQAFNPKAV VLQLGADTIA GDPMCSFNMT PVGIGKCLKY ILQWQLATLI LGGGGYNLAN TARCWTYLTG  
VILGKTLSS EIPDHEFFTAY GPDYVLEITP SCRPRNNEPH RIQQILNYIK GNLKHVV<HHH HHH>

## General References

Hu E., et al. (2000) J. Biol. Chem. 275:15254-15264  
Buggy J.J., et al. (2000) Biochem. J. 350:199-205

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain