

Recombinant Human HDAC3 cell lysate

Cat. No. HDAC3-572HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human HDAC3 / Histone deacetylase 3 derived in Baculovirus-Insect cells. The whole cell lysate is provided in 1X Sample Buffer. Browse all transfected cell lysate positive controls
Species	Human
Source	Insect Cells
Preparation method	Transfected cells were cultured for 48hrs before collection. The cells were lysed in modified RIPA buffer with cocktail of protease inhibitors. Cell debris was removed by centrifugation and then centrifuged to clarify the lysate. The cell lysate was boiled for 5 minutes in 1 x SDS sample buffer (50 mM Tris-HCl pH 6.8, 12.5% glycerol, 1% sodium dodecylsulfate, 0.01% bromophenol blue) containing 5% b-mercaptoethanol, and lyophilized.
Lysis buffer	Modified RIPA Lysis Buffer: 50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF
Quality control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Recommended Usage	1. Centrifuge the tube for a few seconds and ensure the pellet at the bottom of the tube. 2. Re-dissolve the pellet using 200µL pure water and boiled for 2-5 min. 3. Store it at -80°C. Recommend to aliquot the cell lysate into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles. Notes: The lysate is ready to load on

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	SDS-PAGE for Western blot application. If dissociating conditions are required, add reducing agent prior to heating.
Stability	Samples are stable for up to twelve months from date of receipt at -80°C
Storage Buffer	50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF
Storage Instruction	Lysate samples are stable for 12 months from date of receipt when stored at -80°C. Avoid repeated freeze-thaw cycles. Prior to SDS-PAGE fractionation, boil the lysate for 5 minutes.

GENE INFORMATION

Gene Name	HDAC3 histone deacetylase 3 [Homo sapiens]
Official Symbol	HDAC3
Synonyms	HDAC3; histone deacetylase 3; HD3; RPD3; RPD3 2; SMAP45; RPD3-2;
Gene ID	8841
mRNA Refseq	NM_003883
Protein Refseq	NP_003874
MIM	605166
UniProt ID	O15379
Chromosome Location	5q31.1-q31.2

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Pathway

BMAL1:CLOCK/NPAS2 Activates Circadian Expression, organism-specific biosystem; Cell cycle, organism-specific biosystem; Circadian Clock, organism-specific biosystem; Circadian Repression of Expression by REV-ERBA, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem; Metabolism, organism-specific biosystem;

Function

DNA binding; NAD-dependent histone deacetylase activity (H3-K14 specific); NAD-dependent histone deacetylase activity (H3-K9 specific); NAD-dependent histone deacetylase activity (H4-K16 specific); chromatin binding; enzyme binding; histone deacetylase activity; histone deacetylase activity; histone deacetylase activity (H3-K16 specific); histone deacetylase binding; hydrolase activity; protein binding; protein deacetylase activity; transcription corepressor activity; transcription factor binding;