

Recombinant Human SHH cell lysate

Cat. No. SHH-1494HCL Lot. No. (See product label)

SPECIFICATION

Product Overview	Human SHH / Sonic hedgehog (aa 1-197) derived in Human Cells. The whole cell lysate is provided in 1X Sample Buffer. Browse all transfected cell lysate positive controls
Species	Human
Source	Human Cells
ProteinLength	1-197 a.a.
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

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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 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

SHH sonic hedgehog [*Homo sapiens*]

Official Symbol

SHH

Synonyms

SHH; sonic hedgehog; HLP3, HPE3, sonic hedgehog (*Drosophila*) homolog , sonic hedgehog homolog (*Drosophila*); sonic hedgehog protein; HHG1; MCOPCB5; SMMCI; TPT; TPTPS; sonic hedgehog homolog; HLP3; HPE3;

Gene ID

6469

mRNA Refseq

NM_000193

Protein Refseq

NP_000184

MIM

600725

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UniProt ID	Q15465
Chromosome Location	7q36
Pathway	Basal cell carcinoma, organism-specific biosystem; Basal cell carcinoma, conserved biosystem; Class B/2 (Secretin family receptors), organism-specific biosystem; FOXA1 transcription factor network, organism-specific biosystem; GPCR ligand binding, organism-specific biosystem; Glypican 3 network, organism-specific biosystem; Heart Development, organism-specific biosystem;
Function	calcium ion binding; glycoprotein binding; glycosaminoglycan binding; laminin-1 binding; morphogen activity; patched binding; peptidase activity; protein binding; signal transducer activity; zinc ion binding;

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