

Recombinant Human SC5DL 293 Cell Lysate

Cat. No. SC5DL-2051HCL Lot. No. (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for sterol-C5-desaturase (ERG3 delta-5-desaturase homolog, <i>S. cerevisiae</i>)-like (SC5DL), transcript variant 1 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name SC5DL sterol-C5-desaturase (ERG3 delta-5-desaturase homolog, *S. cerevisiae*)-like [*Homo sapiens*]

Official Symbol SC5DL

Synonyms SC5DL; sterol-C5-desaturase (ERG3 delta-5-desaturase homolog, *S. cerevisiae*)-like; sterol C5 desaturase (ERG3 delta 5 desaturase homolog, fungal) like , sterol C5 desaturase (fungal ERG3, delta 5 desaturase) like; lathosterol oxidase; C-5 sterol desaturase; lathosterol 5-desaturase; lathosterol dehydrogenase; delta(7)-sterol 5-desaturase; fungal ERG3, delta-5-desaturase-like; 3beta-hydroxysteroid-delta5-desaturase; ERG3; SC5D; S5DES;

Gene ID 6309

mRNA Refseq NM_001024956

Protein Refseq NP_001020127

MIM 602286

UniProt ID O75845

Chromosome Location 11q23.3

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Pathway

Cholesterol Biosynthesis, organism-specific biosystem; Cholesterol biosynthesis, organism-specific biosystem; Cholesterol biosynthesis, squalene 2,3-epoxide =>cholesterol, organism-specific biosystem; Cholesterol biosynthesis, squalene 2,3-epoxide => cholesterol, conserved biosystem; Metabolic pathways, organism-specific biosystem;

Function

C-5 sterol desaturase activity; iron ion binding; lathosterol oxidase activity; oxidoreductase activity;

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