

Recombinant Human FECH 293 Cell Lysate

Cat. No. FECH-6267HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for ferrochelatase (protoporphyrin) (FECH), nuclear gene encoding mitochondrial protein, transcript variant 2 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 FECH ferrochelatase [Homo sapiens]

Official Symbol FECH

Synonyms

FECH; ferrochelatase; ferrochelatase (protoporphyria); ferrochelatase, mitochondrial; protoporphyria; heme synthase; heme synthetase; protoheme ferro-lyase; EPP; FCE;

Gene ID 2235

mRNA Refseq NM_000140

Protein Refseq NP_000131

MIM 612386

UniProt ID P22830

Chromosome Location 18q21.2-q21.3

Pathway

HIF-1-alpha transcription factor network, organism-specific biosystem; Heme Biosynthesis, organism-specific biosystem; Heme biosynthesis, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of porphyrins, organism-specific biosystem; Porphyrin and chlorophyll metabolism, organism-specific biosystem;

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Function

2 iron, 2 sulfur cluster binding; ferrochelatase activity; ferrochelatase activity; ferrous iron binding; metal ion binding; protein binding;

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