

Recombinant Human CYP4F12 293 Cell Lysate

Cat. No. CYP4F12-7102HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for cytochrome P450, family 4, subfamily F, polypeptide 12 (CYP4F12) 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 CYP4F12 cytochrome P450, family 4, subfamily F, polypeptide 12 [Homo sapiens]

Official Symbol CYP4F12

Synonyms CYP4F12; cytochrome P450, family 4, subfamily F, polypeptide 12; cytochrome P450, subfamily IVF, polypeptide 12; cytochrome P450 4F12; CYP4F12; F22329_1;

Gene ID 66002

mRNA Refseq NM_023944

Protein Refseq NP_076433

MIM 611485

UniProt ID Q9HCS2

Chromosome Location 19p13.1

Pathway Biological oxidations, organism-specific biosystem; Cytochrome P450 - arranged by substrate type, organism-specific biosystem; Fatty acids, organism-specific biosystem; Metabolism, organism-specific biosystem; Phase 1 - Functionalization of compounds, organism-specific biosystem; Tryptophan metabolism, organism-specific biosystem;

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Function

alkane 1-monooxygenase activity; arachidonic acid epoxygenase activity; aromatase activity; electron carrier activity; heme binding; leukotriene-B4 20-monooxygenase activity; metal ion binding; monooxygenase activity; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen; vitamin-K-epoxide reductase (warfarin-sensitive) activity;

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