

Recombinant Human CYP27A1 Protein, His&GST-tagged

Cat. No. CYP27A1-1298H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CYP27A1 Protein (Ala34-Cys531) with N-His&GST tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Ala34-Cys531
Description	This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This mitochondrial protein oxidizes cholesterol intermediates as part of the bile synthesis pathway. Since the conversion of cholesterol to bile acids is the major route for removing cholesterol from the body, this protein is important for overall cholesterol homeostasis. Mutations in this gene cause cerebrotendinous xanthomatosis, a rare autosomal recessive lipid storage disease.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 87 kDa Accurate Molecular Mass: 87 kDa
Purity	> 90%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	CYP27A1 cytochrome P450, family 27, subfamily A, polypeptide 1 [Homo sapiens (human)]
Official Symbol	CYP27A1
Synonyms	CYP27A1; cytochrome P450, family 27, subfamily A, polypeptide 1; CYP27, cytochrome P450, subfamily XXVIIA (steroid 27 hydroxylase, cerebrotendinous xanthomatosis), polypeptide 1; sterol 26-hydroxylase, mitochondrial; cerebrotendinous xanthomatosis; CP27; CTX; cytochrome P450 27; sterol 27-hydroxylase; cytochrome P-450C27/25; vitamin D(3) 25-hydroxylase; cholestanetriol 26-monooxygenase; 5-beta-cholestane-3-alpha,7-alpha,12-alpha-triol 27-hydroxylase; 5-beta-cholestane-3-alpha, 7-alpha, 12-alpha-triol 26-hydroxylase; 5-beta-cholestane-3-alpha, 7-alpha, 12-alpha-triol 27-hydroxylase; cytochrome P450,

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subfamily XXVIIA (steroid 27-hydroxylase, cerebrotendinous xanthomatosis),
polypeptide 1; CYP27;

Gene ID [1593](#)

mRNA Refseq [NM_000784](#)

Protein Refseq [NP_000775](#)

MIM [606530](#)

UniProt ID [Q02318](#)

