

Recombinant Human CH25H, His-tagged

Cat. No. CH25H-11153H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CH25H protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	140-272a.a.
Description	This is an intronless gene that is involved in cholesterol and lipid metabolism. The encoded protein is a membrane protein and contains clusters of histidine residues essential for catalytic activity. Unlike most other sterol hydroxylases, this enzyme is a member of a small family of enzymes that utilize diiron cofactors to catalyze the hydroxylation of hydrophobic substrates.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

GENE INFORMATION

Gene Name	CH25H cholesterol 25-hydroxylase [Homo sapiens]
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Official Symbol	CH25H
Synonyms	CH25H; cholesterol 25-hydroxylase; h25OH; cholesterol 25-monooxygenase; C25H;
Gene ID	9023
mRNA Refseq	NM_003956
Protein Refseq	NP_003947
MIM	604551
UniProt ID	O95992
Chromosome Location	10q23
Pathway	Bile acid and bile salt metabolism, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; Primary bile acid biosynthesis, organism-specific biosystem; Primary bile acid biosynthesis, conserved biosystem; Synthesis of bile acids and bile salts, organism-specific biosystem;
Function	cholesterol 25-hydroxylase activity; iron ion binding; metal ion binding; steroid hydroxylase activity;