Recombinant Human DHCR24, GST-tagged

Cat. No. DHCR24-11962H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DHCR24 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	217-516a.a.
Description	This gene encodes a flavin adenine dinucleotide (FAD)-dependent oxidoreductase which catalyzes the reduction of the delta-24 double bond of sterol intermediates during cholesterol biosynthesis. The protein contains a leader sequence that directs it to the endoplasmic reticulum membrane. Missense mutations in this gene have been associated with desmosterolosis. Also, reduced expression of the gene occurs in the temporal cortex of Alzheimer disease patients and overexpression has been observed in adrenal gland cancer cells.
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100,15%glycerol.

GENE INFORMATION

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Gene Name	DHCR24 24-dehydrocholesterol reductase [Homo sapiens]
Official Symbol	DHCR24
Synonyms	DHCR24; 24-dehydrocholesterol reductase; delta(24)-sterol reductase; KIAA0018; seladin 1; diminuto/dwarf1 homolog; selective AD indicator 1; desmosterol-to-cholesterol enzyme; 3 beta-hydroxysterol delta 24-reductase; 3-beta-hydroxysterol delta-24-reductase; DCE; SELADIN1; Nbla03646; seladin-1;
Gene ID	1718
mRNA Refseq	NM_014762
Protein Refseq	NP_055577
MIM	606418
UniProt ID	Q15392
Chromosome Location	1p32.3
Pathway	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; Metabolism, organism-specific biosystem;
Function	UDP-N-acetylmuramate dehydrogenase activity; delta24-sterol reductase activity; enzyme binding; flavin adenine dinucleotide binding; oxidoreductase activity, acting on CH-OH group of donors; oxidoreductase activity, acting on the CH-CH group of donors, NA

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