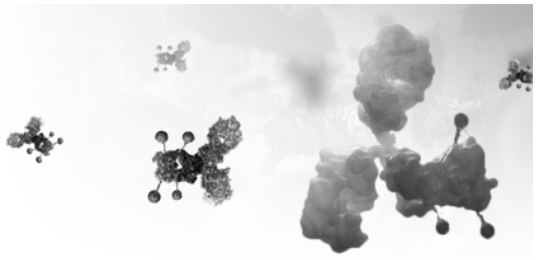

Human DHCR24 peptide (DAG-P1961)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen 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. [provided by RefSeq, Jul 2008]
Specificity	Highly expressed in brain and adrenal gland with moderate expression in liver, lung, spleen, prostate and spinal cord. Low expression in heart, uterus and prostate. Undetectable in blood cells. In the brain, strongly expressed in cortical regions, substan
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the FAD-binding oxidoreductase/transferase type 4 family.Contains 1 FAD-binding PCMH-type domain.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	DHCR24 24-dehydrocholesterol reductase [Homo sapiens (human)]
Official Symbol	DHCR24

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Synonyms	DHCR24; 24-dehydrocholesterol reductase; DCE; SELADIN1; Nbla03646; seladin-1; delta(24)-sterol reductase; 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;
Entrez Gene ID	1718
mRNA Refseq	NM_014762.3
Protein Refseq	NP_055577.1
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; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; Steroid biosynthesis, organism-specific biosystem; Steroid biosynthesis, conserved biosystem; Tryptophan metabolism, organism-specific biosystem; cholesterol bi
Function	UDP-N-acetylmuramate dehydrogenase activity; delta24-sterol reductase activity; enzyme binding; flavin adenine dinucleotide binding; oxidoreductase activity, acting on the CH-CH group of donors, NAD or NADP as acceptor; peptide antigen binding;

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