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Product Information

MemDX™ Membrane Protein Human DHCR7 (7-dehydrocholesterol reductase) Full Length

Cat. No.: **MPC2886K**
This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human DHCR7 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species
Human

Target Protein
DHCR7

Protein Length
Full length

Protein Class
Oxidoreductase

TMD
7

Sequence
MAAKSQPNIPKAKSLDGVTNDRTASQGQWGRAWEVDWFSLASVIFLLLFA
PFIVYYFIMACDQYSCALTGPVVDIVTGHARLSDIWAKTPPITRKAAQLY
TLWVTFQVLLYTSLPDFCHKFLPGYVGGIQEGAVTPAGVVNKYQINGLQA
WLLTHLLWFANAHLLSWFSPTIIFDNWIPLLWCANILGYAVSTFAMVKGY
FFPTSARDCKFTGNFFYNYMMGIEFNPRIGKWFDFKLFFNGRPGIVAWTL
INLSFAAKQRELHSHVTNAMVLVNVLQAIYVIDFFWNETWYLKTIDICHD
HFGWYLGWGDCVWLPYLYTLQGLYLVYHPVQLSTPHAVGVLLLGLVGYYI
FRVANHQKDLFRRTDGRCLIWGRKPKVIECSYTSADGQRHHSKLLVSGFW
GVARHFNYVGDLMGSLAYCLACGGGHLLPYFYIIYMAILLTHRCLRDEHR
CASKYGRDWERYTAAVPYRLLPGIF

Product Description

Expression Systems
HEK293

Tag
Based on specific requirements

Protein Format

Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

DHCR7

Full Name

7-dehydrocholesterol reductase

Introduction

This gene encodes an enzyme that removes the C(7-8) double bond in the B ring of sterols and catalyzes the conversion of 7-dehydrocholesterol to cholesterol. This gene is ubiquitously expressed and its transmembrane protein localizes to the endoplasmic reticulum membrane and nuclear outer membrane. Mutations in this gene cause Smith-Lemli-Opitz syndrome (SLOS); a syndrome that is metabolically characterized by reduced serum cholesterol levels and elevated serum 7-dehydrocholesterol levels and phenotypically characterized by cognitive disability, facial dysmorphism, syndactyly of second and third toes, and holoprosencephaly in severe cases to minimal physical abnormalities and near-normal intelligence in mild cases. Alternative splicing results in multiple transcript variants that encode the same protein.

Alternative Names

DHCR7; SLOS; 7-DHC reductase; delta-7-dehydrocholesterol reductase; delta7-sterol reductase; putative sterol reductase SR-2; sterol delta-7-reductase; sterol reductase SR-2; 7-dehydrocholesterol reductase

Gene ID

1717

UniProt ID

Q9UBM7