

Product Information

MemDX™ Membrane Protein Human ABCG5 (ATP binding cassette subfamily G member 5)

Expressed *in vitro* *E.coli* expression system, Full Length

Cat. No.: **MPX2845K**

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

This product is a Human ABCG5 membrane protein expressed *in vitro* *E.coli* expression system. 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

ABCG5

Protein Length

Full Length

Protein Class

Transport

TMD

6

Sequence

MGDLSSLTPGGSMGLQVNRGSQSSLEGAPATAPEPHSLGILHASYSVSHRVRPWWDITSCRQQWTRQILKDVSLYVESGQIMCIL

Product Description

Expression Systems

in vitro *E.coli* expression system

Tag

10xHis tag at the N-terminus

Protein Format

Soluble

Form

Liquid or Lyophilized powder

Buffer

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

ABCG5

Full Name

ATP binding cassette subfamily G member 5

Introduction

The protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the White subfamily. The protein encoded by this gene functions as a half-transporter to limit intestinal absorption and promote biliary excretion of sterols. It is expressed in a tissue-specific manner in the liver, colon, and intestine. This gene is tandemly arrayed on chromosome 2, in a head-to-head orientation with family member ABCG8. Mutations in this gene may contribute to sterol accumulation and atherosclerosis, and have been observed in patients with sitosterolemia.

Alternative Names

ABCG5; STSL; STSL2; ATP-binding cassette, sub-family G (WHITE), member 5; sterolin 1; ATP binding cassette subfamily G member 5

Gene ID

[64240](#)

UniProt ID

[Q9H222](#)