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Product Information

MemDX™ Membrane Protein Human SELENOS (Selenoprotein S) Full Length

Cat. No.: **MPC1845K**
This product is for research use only and is not intended for diagnostic use.

This product is a 21.1 kDa Human SELENOS 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
SELENOS

Protein Length
Full length

Protein Class
Transporter

Molecular Weight
21.1 kDa

TMD
1

Sequence
MERQEESLSARPALETEGLRFLHTTVGSLLATYGWYIVFSCILLYVVFQK
LSARLRALRQRQLDRAAAAVEPDVVVKRQEALAAARLKMQEELNAQVEKH
KEKLKQLEEEKRRQKIEMWDSMQEGKSYKGNAKKPQEEDSPGPSTSSVLK
RKSDRKPLRGGGYNPLSGEGGGACSWRPGRRGPSSGGUG

Product Description

Expression Systems
HEK293

Tag
Based on specific requirements

Protein Format
Detergent or based on specific requirements

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

SELENOS

Full Name

Selenoprotein S

Introduction

This gene encodes a transmembrane protein that is localized in the endoplasmic reticulum (ER). It is involved in the degradation process of misfolded proteins in the ER, and may also have a role in inflammation control. This protein is a selenoprotein, containing the rare amino acid selenocysteine (Sec). Sec is encoded by the UGA codon, which normally signals translation termination. The 3' UTRs of selenoprotein mRNAs contain a conserved stem-loop structure, designated the Sec insertion sequence (SECIS) element, that is necessary for the recognition of UGA as a Sec codon, rather than as a stop signal. Two additional phylogenetically conserved stem-loop structures (Stem-loop 1 and Stem-loop 2) in the 3' UTR of this mRNA have been shown to function as modulators of Sec insertion. An alternatively spliced transcript variant, lacking the SECIS element and encoding a non-Sec containing shorter isoform, has been described for this gene (PMID:23614019).

Alternative Names

SELENOS; SELS; VIMP; ADO15; SBBI8; SEPS1; AD-015; VCP interacting membrane selenoprotein; VCP-interacting membrane protein; tanis; valosin-containing protein-interacting membrane protein; Selenoprotein S

Gene ID

55829

UniProt ID

Q9BQE4

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