

Recombinant human STARD5 protein

Catalog Number: ATGP2435

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-213aa

UniProt No.

Q9NSY2

NCBI Accession No.

NP_871629

Alternative Names

StAR-related lipid transfer protein 5

PRODUCT SPECIFICATION

Molecular Weight

26.2 kDa (236aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 20% glycerol, 1mM DTT

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

StAR-related lipid transfer protein 5, also known as STARD5, belongs to the STARD family of proteins is comprised of fifteen different members. All members contain the characteristic START domain and are believed to play key roles in the metabolism and transport of lipids. The STARD proteins are grouped into six subfamilies based on their START domain sequences. STARD5 constitute one subfamily, sharing approximately 30% amino acid identity with each other. STARD5 is not sterol-regulated but can be induced by endoplasmic reticulum (ER) stress. Due to its exclusive tissue expression and its interaction with sterols, StARD6 may function in

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reproduction and germ cell maturation. Recombinant human STARD5 protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

<MGSSHHHHH SSGLVPRGSH MGS>MDPALAA QMSEAVAEM LQYRRDTAGW KICREGNGVS VSWRPSVEFP
GNLYRGEGIV YGTLEEVWDC VKPAVGGLRV KWDENVTFGE IIQSITDTLC VSRTSTPSAA MKLISPRDFV DLVLVKRYED
GTISSNATHV EHPLCPPKPG FVRGFNHPCG CFCEPLPGEP TKTNLVTFH TDLSGYLPQN VVDSFFPRSM TRFYANLQKA
VKQFHE

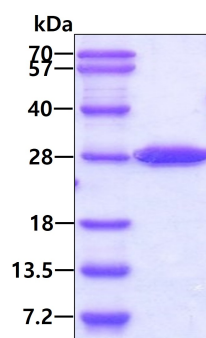
General References

Soccio R E., et al. (2005) *J Biol Chem.* 280: 19410-19418.

Alpy F., et al. (2005) *J Cell Sci.* 118-2791-2801.

DATA

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.