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# Recombinant human STARD5 protein

Catalog Number: ATGP2435

## **PRODUCT INFORMATION**

#### **Expression system**

E.coli

#### **Domain**

1-213aa

#### **UniProt No.**

O9NSY2

#### **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 endomplasmic 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**

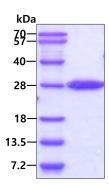
<MGSSHHHHHH SSGLVPRGSH MGS>MDPALAA QMSEAVAEKM LQYRRDTAGW KICREGNGVS VSWRPSVEFP GNLYRGEGIV YGTLEEVWDC VKPAVGGLRV KWDENVTGFE IIQSITDTLC VSRTSTPSAA MKLISPRDFV DLVLVKRYED GTISSNATHV EHPLCPPKPG FVRGFNHPCG CFCEPLPGEP TKTNLVTFFH TDLSGYLPQN VVDSFFPRSM TRFYANLQKA VKOFHE

#### **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**



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

