Recombinant human STAR protein

Catalog Number: ATGP1292

PRODUCT INFORMATION

Expression system
E.coli

Domain
64-285aa

UniProt No.
P49675

NCBI Accession No.
NP_000340.2

Alternative Names
Steroidogenic acute regulatory protein mitochondrial, Steroidogenic acute regulatory protein, mitochondrial,

PRODUCT SPECIFICATION

Molecular Weight
27.1 kDa (243aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 2mM DTT

Purity
> 90% 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, also known as steroidogenic acute regulatory protein, appears to mediate the rapid increase in pregnenolone synthesis stimulated by tropic hormones. It increases pregnenolone synthesis more than four-fold and a major STAR transcript of 1. 6 kb is found in ovary and testis. During ongoing growth and differentiation of the follicle of the ovary, the immunoreactivity of it tends to shift from the granulosa cells of early antral follicles to the theca cell layers in the adult. Recombinant human STAR protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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Amino acid Sequence

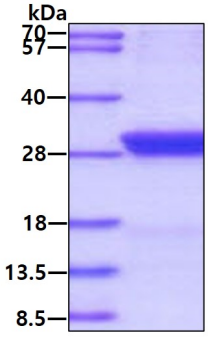
<MGSSHHHHHH SSGLVPRGSH M>EETLYSDQE LAYLQQGEEA MQKALGILSN QEGWKKESQQ DNGDKVMSKV VPDVGKVFRL EVVVDQPMER LYEELVERME AMGEWNPNVK EIKVLQKIGK DTFITHELAA EAAGNLVGPR DFVSVRCAKR RGSTCVLAGM ATDFGNMPEQ KGVIRAEHGP TCMVLHPLAG SPSKTKLTWL LSIDLKGWLP KSIINQVLSQ TQVDFANHLR KRLESHPASE ARC

General References

Borthwick F. et al. (2009) FEBS Lett. 583:1147-1153.
Mikhaylova I.V. et al. (2008) J. Endocrinol.199: 435-444.

DATA

SDS-PAGE



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