

Recombinant Human Steroidogenic Acute Regulatory Protein, His-tagged

Cat. No. STAR-1292H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human STAR protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Species	Human
Source	Human
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.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 2mM DTT
Molecular Weight	27.1 kDa (243aa), confirmed by MALDI-TOF
Purity	> 90% by SDS - PAGE
Concentration	1.0 mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MEETLYSDQE LAYLQQGEEA MQKALGILSN QEGWKKESSQ DNGDKVMSKV VPDVGKVFRL EVVVDQPMER LYEELVERME

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AMGEWNPNVK EIKVLQKIGK DTFITHELAA EAAGNLVGPR DFVSVRCAKR
RGSTCVLAGM ATDFGNMPEQ KGVIRAEHGP TCMVLHPLAG SPSKTKLTWL
LSIDLKGWLP KSIINQVLSQ TQVDFANHLLR KRLESHPAASE ARC

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Pathways

Metabolism of lipids and lipoproteins; Metabolism of steroid hormones and vitamins A and D; Pregnenolone biosynthesis

GENE INFORMATION

Gene Name

STAR steroidogenic acute regulatory protein [Homo sapiens]

Official Symbol

STAR

Synonyms

STAR; cholesterol trafficker; mitochondrial steroid acute regulatory protein; OTTHUMP00000225718; OTTHUMP00000225719; OTTHUMP00000225878; StAR; STARD1; StARD1; StAR-related lipid transfer (START) domain containing 1; START domain containing 1; START domain-containing protein 1; steroid acute regulatory protein; steroidogenic acute regulator; Steroidogenic acute regulatory protein, mitochondrial; steroidogenic acute regulatory protein, mitochondrial; steroidogenic acute regulatory protein

Gene ID

6770

mRNA Refseq

NM_000349

Protein Refseq

NP_000340

MIM

600617

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UniProt ID	P49675
Chromosome Location	8p11.2
Function	cholesterol binding; cholesterol transporter activity; lipid binding

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