

Recombinant Human STAR, His-tagged

Cat. No. STAR-30116TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human StAR with an N terminal His tag; 243aa, 27.1kDa.
Species	Human
Source	E.coli
ProteinLength	222 amino acids
Description	The protein encoded by this gene plays a key role in the acute regulation of steroid hormone synthesis by enhancing the conversion of cholesterol into pregnenolone. This protein permits the cleavage of cholesterol into pregnenolone by mediating the transport of cholesterol from the outer mitochondrial membrane to the inner mitochondrial membrane. Mutations in this gene are a cause of congenital lipoid adrenal hyperplasia (CLAH), also called lipoid CAH. A pseudogene of this gene is located on chromosome 13.
Conjugation	HIS
Molecular Weight	27.100kDa inclusive of tags
Tissue specificity	Expressed in gonads, adrenal cortex and kidney.
Form	Liquid
Purity	>90% by SDS-PAGE

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Storage buffer	pH: 8.00 Constituents: 0.32% Tris HCl, 20% Glycerol, 0.03% DTT
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHSSGLVPRGSHMEETLYSDQELAYLQQGEEA MQKALGILSNQEGW KKESQQDNGDKVMSKVVPDVGKVFRL EVVVDQPMERLYEELVERMEAMGEWNP NVKEIKVLQKIGK DTFITHELAAEAAGNLVGPRDFVSVRCAKRRGSTCVLAGM ATD FGNMPEQKGVIRAEHGPTCMVLHPLAGSPSKTKLTWL LSIDLKGWLPKSIINQVLSQ TQVDFANHLRKRLESHPAE ARC
Sequence Similarities	Contains 1 START domain.

GENE INFORMATION

Gene Name	STAR steroidogenic acute regulatory protein [Homo sapiens]
Official Symbol	STAR
Synonyms	STAR; steroidogenic acute regulatory protein; steroidogenic acute regulator; steroidogenic acute regulatory protein, mitochondrial; StAR; StAR related lipid transfer (START) domain containing 1; STARD1;
Gene ID	6770
mRNA Refseq	NM_000349
Protein Refseq	NP_000340
MIM	600617

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Uniprot ID	P49675
Chromosome Location	8p11.2
Pathway	Metabolism of lipids and lipoproteins, organism-specific biosystem; Metabolism of steroid hormones and vitamins A and D, organism-specific biosystem; Pregnenolone biosynthesis, organism-specific biosystem;
Function	cholesterol binding; cholesterol transporter activity; lipid binding;

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