

Recombinant Human STAR

Cat. No. STAR-30115TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human StAR with N terminal proprietary tag, 57.46kDa inclusive of tag. Purified from an in vitro wheat germ expression system.
Species	Human
Source	Wheat Germ
ProteinLength	286 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 lipid adrenal hyperplasia (CLAH), also called lipid CAH. A pseudogene of this gene is located on chromosome 13.
Molecular Weight	57.460kDa inclusive of tags
Tissue specificity	Expressed in gonads, adrenal cortex and kidney.
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MLLATFKLCAGSSYRHMNRNMKGLRQQAVMAISQELNRRAL GGTPSTWINQVRRR SSLLGSRLEETLYSDQELAYLQQGE EAMQKALGILSNQEGWKKESQQDNGDKVMS KVVPDVGKVF RLEVVDQPMERLYEELVERMEAMGEWNPVKEIKVLQKI GKDTFI THELAAEAAGNLVGPRDFVSVRCAKRRGSTCVLA GMATDFGNMPEQKGVIRAEHG PTCMVLHPLAGSPSKTKLT WLLSIDLKGWLPKSIINQVLSQTQVDFANHLRKRLSH PA SEARC
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

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MIM	600617
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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