

## STAR Human

**Description:** STAR Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 243 amino acids (64-285) and having a molecular mass of 27.1 kDa. STAR is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:** PRPS-986

For research use only.

**Synonyms:** Steroidogenic acute regulatory protein, STARD1, StAR, START domain-containing protein 1, cholesterol trafficker, Mitochondrial steroid acute regulatory protein, StAR-related lipid transfer (START) domain containing 1.

**Source:** E.coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MEETLYSDQE LAYLQQGEEA  
MQKALGILSN QEGWKESQQ DNGDKVMSKV VPDVGKVFRL EVVVDQPMER LYEELVERME  
AMGEWNPVVK EIKVLQKIGK DTFITHELAA EAAGNLVGPR DFVSVRCAKR RGSTCVLAGM  
ATDFGNMPEQ KGVIRAEHGP TCMVLHPLAG SPSKTKLTWL LSIDLKGWLP KSIINQVLSQ  
TQVDFANHLR KR

**Purity:** Greater than 90% as determined by SDS-PAGE.

**Formulation:**

The STAR solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 2mM DTT and 20% glycerol.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

STAR facilitates the fast increase in pregnenolone synthesis stimulated by tropic hormones. STAR increases pregnenolone synthesis more than four-fold and a major STAR transcription of 1.6 kb is observed in ovary and testis. Throughout the growth and differentiation period of the ovary follicle, the immunoreactivity is likely to move from the granulosa cells of early antral follicles to the theca cell layers in the adult.

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