



Recombinant Human CYP11A1 Protein Product Manual

1. Product Basic Information

Product No.: REP06614

Protein Name: Steroid 20-22-Lyase (CYP11A1)

Aliases: CYP11A; CYPXIA1; P450SCC; steroid 20-22-lyase; cytochrome P450 11A1; cytochrome P450(scc); cholesterol 20-22 desmolase

UniProt ID: P05108

UniProt Link: <https://www.uniprot.org/uniprotkb/P05108/entry>

Species Source: Homo sapiens (Human)

Expression System: E.coli

Protein Length: Full Length of Mature Protein (40-521aa)

Molecular Weight: 72.1kDa

Protein Tag: N-terminal 6xHis-SUMO-tagged

2. Amino Acid Sequence (40-521aa)

ISTRSPRPFNEIPSPGDNGWLNLYHFWRETGTHKVHLHHVQNFQKYGPIYREKLGN
VESVYVIDPEDVALLFKSEGNPERFLIPPWVAYHQYYQRPIGVLLKKSAAWKKDRV
ALNQEVMAPEATKNFLPLLDVSRDFVSVLHRRIKKAGSGNYSGLDISDDLFRFAFES
ITNVIFGERQGMLEEVVNPEAQRFDIAIYQMFHTSVPMNLNPPDLFRLFRTKTWKDH
VAAWDVIFSKADIYTQNFYWELRQKGSVHHDYRGILYRLLGDSKMSFEDIKANVTE
MLAGGVDTTSMTLQWHLYEMARNLKVQDMLRAEVLAARHQAQGDMATMLQLVPL
LKASIKETLRLHPISVTLQRYLVNDLVLRDYMIPAKTLVQVAIYALGREPTFFFDPENF
DPTRWLSKDKNITYFRNLGFGWGVQRCLGRRIAELEMTIFLINMLENFRVEIQHLSD
VGTTFNILMPEKPISFTFWPFNQEATQQ

3. Storage Buffer

Liquid Delivery Form: Tris/PBS-based buffer with 5%-50% glycerol. Custom glycerol content is available upon customer request (please specify requirements when placing orders).

Lyophilized Powder Delivery Form: Pre-lyophilization buffer is Tris/PBS-based buffer containing 6% Trehalose.



4. Storage Conditions

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

5. Product Description

This product is a recombinant Human CYP11A1 full length of mature protein protein (40-521aa) expressed in E.coli. The protein is with 6xHis-SUMO tag at the N-terminus, which facilitates protein purification, detection and identification. CYP11A1, also known as CYP11A or CYPXIA1 or P450SCC, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.