

General Information

Gene Name Synonym

EC 3.6.4.-; 86 kDa subunit of Ku antigen; ATP-dependent DNA helicase 2 subunit 2; ATP-dependent DNA helicase II 80 kDa subunit; CTC box-binding factor 85 kDa subunit; CTC85; CTCBF; DNA repair protein XRCC5; Ku80; Ku86; Lupus Ku autoantigen protein p86; Nuclear factor IV; Thyroid-lupus autoantigen; TLAA; X-ray repair complementing defective repair in Chinese hamster cells 5; double-strand-break rejoining

Protein Construction

A DNA sequence encoding the XRCC5 (P13010) (Met 1-Ile 732) was fused with a polyhistidine tag at the N-terminus, constructed the plasmid 1; A DNA sequence encoding the XRCC6 (P12956) (Met 1-Asp 609) was fused with a polyhistidine tag at the N-terminus, constructed the plasmid 2. The two plasmids were co-expressed and the heterodimer was purified.

Organism

Human

Expression Host

Baculovirus-Insect Cells

QC Testing

Purity

> 90 % as determined by SDS-PAGE

Endotoxin

< 1.0 EU per μg of the protein as determined by the LAL method

Stability

Samples are stable for up to twelve months from date of receipt at -70°C

Predicted N terminal

His & His

Molecular Mass

The recombinant heterodimer of human XRCC5/XRCC5 comprises 1379 (751 + 628) amino acids and has a calculated molecular mass of 157 (85 + 72) kDa. The apparent molecular mass of rh XRCC5/XRCC5 heterodimer is approximately 70 & 85 kDa respectively in SDS-PAGE under reducing conditions.

Formulation

Lyophilized from sterile 20mM Tris, 500mM NaCl, 10% gly, pH 8.0

1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

Usage Guide

Storage

Store it under sterile conditions at -20°C to -80°C . It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

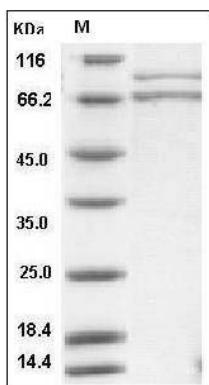
Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE

Human XRCC5 & XRCC6 recombinant protein



Catalog Number: 504622



Human XRCC5 & XRCC6 Heterodimer Protein
SDS-PAGE