

Recombinant Human XRCC5&XRCC6 protein(Met1-Ile732 & Met1-Asp609), His & His-tagged

Cat. No. XRCC5&XRCC6-1340H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant XRCC5 (P13010) (Met 1-Ile 732) was fused with a polyhistidine tag at the N-terminus, constructed the plasmid 1; Recombinant 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 and expressed in Insect Cells.
Species	Human
Source	Insect Cells
ProteinLength	Met1-Ile732 & Met1-Asp609
Form	Lyophilized from sterile 20mM Tris, 500mM NaCl, 10% gly, pH 8.0 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
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.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method
Purity	> 90 % as determined by SDS-PAGE

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Storage Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. 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 It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name XRCC5 X-ray repair complementing defective repair in Chinese hamster cells 5 (double-strand-break rejoining) [Homo sapiens]

Official Symbol XRCC5; XRCC6

Synonyms XRCC5; X-ray repair complementing defective repair in Chinese hamster cells 5 (double-strand-break rejoining); X ray repair complementing defective repair in Chinese hamster cells 5 (double strand break rejoining; Ku autoantigen, 80kD); X-ray repair cross-complementing protein 5; KARP 1; Ku autoantigen; 80kDa; KU80; Ku86; KUB2; TLAA; CTC85; CTCBF; nuclear factor IV; Ku autoantigen, 80kDa; DNA repair protein XRCC5; thyroid-lupus autoantigen; 86 kDa subunit of Ku antigen; lupus Ku autoantigen protein p86; Ku86 autoantigen related protein 1; CTC box-binding factor 85 kDa subunit; ATP-dependent DNA helicase 2 subunit 2; ATP-dependent DNA helicase II 80 kDa subunit; NFIV; KARP1; KARP-1; FLJ39089;

Gene ID 7520

mRNA Refseq NM_021141

Protein Refseq NP_066964

MIM 194364

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