

Recombinant Human MSH2 Protein, His&GST-tagged

Cat. No. MSH2-621H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human MSH2 (NP_000242.1) (Met1-Thr934) was expressed with a C-terminal polyhistidine-tagged GST tag at the N-terminus (his-GST).
Species	Human
Source	Insect Cells
ProteinLength	1-934 a.a.
Predicted N Terminal	Met
Form	Lyophilized from sterile 20 mM Tris, 500 mM NaCl, pH 7.4, 10 % glycerol, 20 mM GSH, 5% ~ 8% trehalose and mannitol.
Molecular Mass	The recombinant human MSH2 consists 1171 amino acids and predicts a molecular mass of 132.6 kDa.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Purity	>90 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70°C.
Storage	Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

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Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name MSH2 mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli) [Homo sapiens]

Official Symbol MSH2

Synonyms MSH2; mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli); COCA1, mutS (E. coli) homolog 2 (colon cancer, nonpolyposis type 1); DNA mismatch repair protein Msh2; HNPCC; HNPCC1; hMSH2; FCC1; COCA1; LCFS2;

Gene ID 4436

mRNA Refseq NM_000251

Protein Refseq NP_000242

MIM 609309

UniProt ID P43246

Chromosome Location 2p21

Pathway BRCA1-associated genome surveillance complex (BASC), organism-specific biosystem; Colorectal cancer, organism-specific biosystem; Colorectal cancer, conserved biosystem; Direct p53 effectors, organism-specific biosystem; Mismatch repair, organism-specific biosystem; Mismatch repair, conserved biosystem; Pathways in cancer, organism-specific biosystem;

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