Recombinant Human MLH1

Cat. No. MLH1-1306H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MLH1(a.a. 557-756) expressed in*E.coli*is antibody reactive. The MLH1 is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
ProteinLength	557-756 a.a.
Description	MLH1 is an 87kDa protein involved in mismatched nucleotides during DNA replication or repair process. Mutations in the human MLH1 (hMLH1) and hMLH2 genes contribute to the development of sporadic colorectal carcinoma and some other both hereditary and sporadic forms of human cancer. MLH1 is identified as a locus frequently mutated in hereditary nonpolyposis colon cancer (HNPCC). MLH1 is a human homolog of the E. coli DNA mismatch repair gene mutL, consistent with the characteristic modifications in microsatellite sequences (RER+ phenotype) found in HNPCC.
Applications	• ELISA • Inhibition Assays • Western Blotting.
Physical Appearance	Sterile Filtered clear solution.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC (b) Analysis by SDS-PAGE.

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Formulation	The MLH1 at 100μg/ml in 50mM Tris-Acetate, pH7.5, 1mM EDTA and 20% Glycerol.
Stability	Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months. Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name	MLH1 mutL homolog 1, colon cancer, nonpolyposis type 2 (E. coli) [Homo sapiens]
Synonyms	mutL homolog 1, colon cancer, nonpolyposis type 2 (E. coli); FCC2; COCA2; HNPCC; hMLH1; HNPCC2; MGC5172; MLH1; MutL protein homolog 1; DNA mismatch repair protein Mlh1; mutL (E. coli) homolog 1 (colon cancer, nonpolyposis type 2)
Gene ID	4292
mRNA Refseq	NM_000249
Protein Refseq	NP_000240
MIM	120436
UniProt ID	P40692
Chromosome Location	3p21.3
Pathway	Colorectal cancer; Endometrial cancer; Mismatch repair; Pathways in cancer
Function	ATP binding; MutSalpha complex binding; guanine/thymine mispair binding; mismatched DNA binding; protein binding; single-stranded DNA binding

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