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Product datasheet for TP762401

PMS2 (NM_000535) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human PMS2 postmeiotic segregation increased 2 (S. cerevisiae) (PMS2), transcript variant 1, Ala626-Asn708, with N-terminal His tag, expressed in E.coli, 50ug
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	A DNA sequence encoding the region (Ala626-Asn708) of PMS2
Tag:	N-His
Predicted MW:	9.7 kDa
Concentration:	>0.05 μg/μL as determined by microplate BCA method
Purity:	>80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	50 mM Tris-HCl, pH 8.0, 8 M urea
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_000526
Locus ID:	5395
UniProt ID:	P54278
RefSeq Size:	2851
Cytogenetics:	7p22.1
RefSeq ORF:	2586
Synonyms:	HNPCC4; MLH4; MMRCS4; PMS2CL; PMSL2

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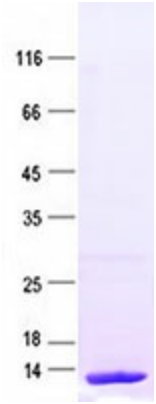
Summary: The protein encoded by this gene is a key component of the mismatch repair system that functions to correct DNA mismatches and small insertions and deletions that can occur during DNA replication and homologous recombination. This protein forms heterodimers with the gene product of the mutL homolog 1 (MLH1) gene to form the MutL-alpha heterodimer. The MutL-alpha heterodimer possesses an endonucleolytic activity that is activated following recognition of mismatches and insertion/deletion loops by the MutS-alpha and MutS-beta heterodimers, and is necessary for removal of the mismatched DNA. There is a DQHA(X)2E(X)4E motif found at the C-terminus of the protein encoded by this gene that forms part of the active site of the nuclease. Mutations in this gene have been associated with hereditary nonpolyposis colorectal cancer (HNPCC; also known as Lynch syndrome) and Turcot syndrome. [provided by RefSeq, Apr 2016]

Protein Families: Druggable Genome

Protein Pathways: Mismatch repair

Product images:



Purified recombinant protein PMS2 was analyzed by SDS-PAGE gel and Coomossie Blue Staining.