

MSH6 Human

Description: MSH6 Human Recombinant produced in E.Coli is single, a non-glycosylated, Polypeptide chain containing 51 amino acids (350-400 a.a.) having a total Mw of 33 kDa. Human MSH6 is fused to a GST tag and purified by proprietary chromatographic techniques.

Catalog #: PRPS-752

For research use only.

Synonyms: MSH6, GTBP, HNPCC5, HSAP, DNA mismatch repair protein Msh6, MutS-alpha 160 kDa subunit, G/T mismatch-binding protein, hMSH6, p160, GTMBP.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered clear solution.

Formulation:

MSH6 is supplied in 50mM Tris-HCl, pH-7.5, 10mM L-glutathione (reduced).

Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

MSH6 deficiency result in hereditary non-polyposis colorectal cancer (Lynch syndrome). HNPCC is an autosomal, dominantly inherited disease linked with rise in cancer susceptibility. MSH6 is known by its familial predisposition to premature onset colorectal carcinoma (crc) and extra-colonic cancers of the gastrointestinal, urological and female reproductive tracts. MSH6 is involved in repairing DNA. MSH6 protein repairs mistakes that occur during DNA replication in preparation for cell division. The MSH6 protein bonds with MSH2 protein and form an active protein complex which recognizes specific parts on the DNA where mistakes have been made during DNA replication. MLH1-PMS2 protein complex, afterwards takes over with the repair. MSH6 gene is part of the set of the mismatch repair (MMR) genes.

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