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## Product Data Sheet

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Product Name: MSH6 Human  
Cat. No.: GP23962  
Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	MSH6; GTBP; HNPCC5; HSAP; DNA mismatch repair protein Msh6; MutS-alpha 160 kDa subunit; G/T mismatch-binding protein; hMSH6; p160; GTMBP.		
Formulation	MSH6 is supplied in 50mM Tris-HCl, pH-7.5, 10mM L-glutathione (reduced).		

### 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).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.

### 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.

### Background

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.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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