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## Product Data Sheet

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Product Name: XRCC2 Human  
 Cat. No.: GP25024  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	X-Ray Repair Complementing Defective Repair In Chinese Hamster Cells 2; X-Ray Repair Cross-Complementing Protein 2; RAD51-like; DNA Repair Protein XRCC2.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMCSAFHR AESGTELLAR LEGRSSLKEI EPNLFADEDS PVHGDILEFH GPEGTGKTEM LYHLTARCIL PKSEGGLEVE VLFIDTDYHF DMLRLVTILE HRLSQSSEEI IKYCLGRFFL VYCSSSTHLL LTLYSLES MF CSHPSLCLLI LDSLSAFYWI DRVNGGESVN LQESTLRKCS QCLEKLVNDY RLVLFATTQT IMQKASSSE EPHASRRLC DVDIDYRPYL CKAQQQLVKH RMFFSKQDDS QSSNQFSLVS RCLKSNSLKK HFFIIGESGV EFC		
Formulation	The XRCC2 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.		

### Introduction

XRCC2 belongs to the RecA/Rad51-related protein family which takes part in homologous recombination to repair DNA damage and preserve chromosome stability. XRCC2 gene participates in the mending of DNA double-strand disruptions by homologous recombination. Additionally, XRCC2 functionally complements Chinese hamster *irs1*, a repair-deficient mutant which displays hypersensitivity to diverse DNA-damaging agents.

### 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. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

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

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XRCC2 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 303 amino acids (1-280) and having a molecular mass of 34.3 kDa. XRCC2 is fused to a 23 amino acid His-tag at N-terminus.

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