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## Product Data Sheet

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Product Name: EYA2 Human  
 Cat. No.: GP23433  
 Batch No.: 1

### Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Eyes absent homolog 2 (Drosophila); EAB1; EC 3.1.3.48.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMERVFVW DLDETIIFH SLLTGTFFASR YGKDTTTSVR IGLMMEEMIF NLADTHLFFN DLEDQDIHV DDVSSDDNGQ DLSTYNFSAD GFHSSAPAAN LCLGSGVHGG VDWMRKLAFR YRRVKEMYNT YKNNVGGLIG TPKRETWLQL RAELEALTDL WLTHSLKALN LINSRPNCVN VLVTTTQLIP ALAKVLLYGL GSVFPIENIY SATKTGKESC FERIMQRFGR KAVYVIGDG VEEEQGAKKH NMPFWRISCH ADLEALRHAL ELEYL.		
Formulation	The EYA2 solution (0.5mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 1mM DTT and 40% glycerol.		

### Introduction

EYA2 belongs to tyrosine phosphatase family which specifically dephosphorylates 'Tyr-142' of histone H2AX (H2AXY142ph). EYA2 promotes effective DNA mending by dephosphorylating H2AX, promoting the enlistment of DNA repair complexes having MDC1. EYA2 role as histone phosphatase can explain its part in transcription regulation during organogenesis.

### 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

EYA2 Human Recombinant produced in E. coli is a single polypeptide chain containing 295 amino acids (244-514) and having a molecular mass of 33.2kDa. EYA2 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic

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

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