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## Product Data Sheet

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Product Name: SUB1 Human  
 Cat. No.: GP24746  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	p14; P15; PC4; Positive cofactor 4; SUB1 homolog; RPO2TC1; Activated RNA polymerase II transcriptional coactivator p15; MGC102747.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MPKSKELVSS SSSGSDSDSE VDKKLKRKKQ VAPEKPVKKQ KTGETSRALS SSKQSSSSRD DNMFQIGKMR YVSVRDFKGG VLIDIREYWM DPEGEMKPGR KGISLNPEQW SQLKEQISDI DDAVRKL.		
Formulation	SUB1 Human solution containing 20mM Tris-HCl pH-8, 0.2M NaCl, 5mM DTT & 20% glycerol.		

### Introduction

SUB1 is a coactivator that functions together with TAFs and mediates functional interactions between upstream activators and the general transcriptional machinery. SUB1 interacts with the activation domain of transcription factor IIA (TFIIA) and TATA-binding protein (TBP)-associated factors (TAFs) to directly bind to double stranded DNA. SUB1 induces both activation and repression of RNAPII basal transcription, depending on the presence or absence of these transcription factors and holoenzyme components.

### 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

SUB1 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 147 amino acids (1-127 a.a.) and having a molecular mass of 16.5 kDa. SUB1 protein is fused to a 20 amino acid His tag at N-terminus and is purified by standard chromatography.

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

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