Product Data Sheet

Product Name:	MED7 Human
Cat. No.:	GP23906
Batch No.:	1

Product Data

Purity	>98%	Source	E.coli.
Phycical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Mediator complex subunit 7; cofactor required for Sp1 transcriptional activation subunit 9 33kDa; Activator-recruited cofactor 34 kDa component; Transcriptional coactivator CRSP33; RNA polymerase transcriptional regulation mediator subunit 7 homolog; mediator of RNA polymerase II transcription subunit 7; CRSP complex subunit 9; CRSP33; CRSP9; ARC34; hMED7.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMGEPQQV SALPPPPMQY IKEYTDENIQ EGLAPKPPPP IKDSYMMFGN QFQCDDLIIR PLESQGIERL HPMQFDHKKE LRKLNMSILI NFLDLLDILI RSPGSIKREE KLEDLKLLFV HVHHLINEYR PHQARETLRV MMEVQKRQRL ETAERFQKHL ERVIEMIQNC LASLPDDLPH SEAGMRVKTE PMDADDSNNC TGQNEHQREN SGHRRDQIIE KDAALCVLID EMNERP		
Formulation	The MED7 solution (0.5mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl, and 10% glycerol.		

Introduction

MED7 is a member of the Mediator complex subunit 7 family. The activation of gene transcription is a multistep course which is initiated by factors which identify transcriptional enhancer sites in DNA and collaborate with co-activators to direct transcriptional initiation by the RNA polymerase II apparatus. The gene encode a subunit of the CRSP (cofactor required for SP1 activation) complex, that, together with TFIID, is needed for effective activation by SP1. Additionally, MED7 is also an element of other multisubunit complexes e.g. thyroid hormone receptor-(TR-) associated proteins that cooperate with TR and enables TR function on DNA templates in conjunction with initiation factors and cofactors.

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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

MED7 Human Recombinant produced in E. coli is a single polypeptide chain containing 256 amino acids (1-233) and having a molecular mass of 29.7 kDa.MED7 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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