Product Data Sheet

Product Name:	MED4 Human
Cat. No.:	GP23905
Batch No.:	1

Product Data

Purity	>98%	Source	Escherichia Coli.
Phycical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Mediator of RNA polymerase II transcription subunit 4; Mediator complex subunit 4; Vitamin D3 receptor-interacting protein complex 36 kDa component; Activator-recruited cofactor 36 kDa component; TRAP/SMCC/PC2 subunit p36 subunit; DRIP36; ARC36; MED4; VDRIP; TRAP36; HSPC126; FLJ10956; RP11-90M2.2.		
Amino Acid Sequence	MAASSSGEKE KERLGGGLGV AGGNSTRERL LSALEDLEVL SRELIEMLAI SRNQKLLQAG EENQVLELLI HRDGEFQELM KLALNQGKIH HEMQVLEKEV EKRDGDIQQL QKQLKEAEQI LATAVYQAKE KLKSIEKARK GAISSEEIIK YAHRISASNA VCAPLTWVPG DPRRPYPTDL EMRSGLLGQM NNPSTNGVNG HLPGDALAAG RLPDVLAPQY PWQSNDMSMN MLPPNHSSDF LLEPPGHNKE DEDDVEIMST DSSSSSSESD LEHHHHHH.		
Formulation	The MED4 protein solution contains 20mM Tris-HCl buffer (pH8.0), 20% glycerol, 1mM DTT and 100mM NaCl.		

Introduction

Mediator complex subunit 4 (MED4) is a component of the Mediator complex, a coactivator involved in the regulated transcription of nearly all RNA polymerase II-dependent genes. MED4 is a component of the vitamin D receptor-interacting protein (DRIP) complex which functions as a nuclear receptor coactivator. The DRIP complex is able to activate nuclear receptors in a ligand-dependent manner. MED4 functions as a link to convey information from gene-specific regulatory proteins to the basal RNA polymerase II transcription apparatus. MED4 is recruited to promoters by direct interactions with regulatory proteins and serves as a scaffold for the assembly of a functional preinitiation complex with RNA polymerase II and the general transcription factors.

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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

MED4 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 278 amino acids (1-270 a.a.) and having a molecular mass of 30.7kDa.MED4 is fused to 8 amino acids His Tag at C-terminus and purified by proprietary chromatographic techniques.

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