Product Data Sheet

Product Name:	POLR3F Human
Cat. No.:	GP22116
Batch No.:	1

Product Data

Purity	>98%	Source	E.coli.
Phycical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	DNA-directed RNA polymerase III subunit RPC6; RNA polymerase III subunit C6; DNA-directed RNA polymerase III subunit F; RNA polymerase III 39 kDa subunit; RPC39; POLR3F; RPC6.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMAEVKVK VQPPDADPVE IENRIIELCH QFPHGITDQV IQNEMPHIEA QQRAVAINRL LSMGQLDLLR SNTGLLYRIK DSQNAGKMKG SDNQEKLVYQ IIEDAGNKGI WSRDIRYKSN LPLTEINKIL KNLESKKLIK AVKSVAASKK KVYMLYNLQP DRSVTGGAWY SDQDFESEFV EVLNQQCFKF LQSKAETARE SKQNPMIQRN SSFASSHEVW KYICELGISK VELSMEDIET ILNTLIYDGK VEMTIIAAKE GTVGSVDGHM KLYRAVNPII PPTGLVRAPC GLCPVFDDCH EGGEISPSNC IYMTEWLEF.		
Formulation	The POLR3F solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.2M NaCl, 30% glycerol and 1mM DTT.		

Introduction

Polymerase III Polypeptide F (POLR3F) is a member of the eukaryotic RPC34/RPC39 RNA polymerase subunit family. POLR3F is DNA-dependent RNA polymerase which catalyzes the transcription of DNA into RNA using the 4 ribonucleoside triphosphates as substrates. POLR3F is one of many subunits forming eukaryotic RNA polymerase III (RNA Pol III), which transcribes 5S ribosomal RNA and tRNA genes. POLR3F binds both TFIIIB90 and TBP, 2 subunits of RNA polymerase III transcription initiation factor IIIB (TFIIIB).

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.

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

POLR3F Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 339 amino acids (1-316) and having a molecular mass of 38.1kDa.POLR3F is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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