
Product Data Sheet

Product Name: POLR3H Human
 Cat. No.: GP24209
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	DNA-directed RNA polymerase III subunit RPC8; RNA polymerase III subunit C8; DNA-directed RNA polymerase III subunit H; RNA polymerase III subunit 22.9 kDa subunit; RPC22.9; POLR3H; KIAA1665; RPC8.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMFVLVEM VDTVRIPPWQ FERKLNSIA EELNKKLANK VVYNVGLCIC LFDITKLEDA YVFPGDGASHTKVHFRVVF HPFLDEILIG KIKGCSPEGV HVSLGFFDDI LIPPESLQQP AKFDEAEQVW VWEYETEEGA HDLYMDTGEE IRFRVDES FVDTSPGSS ADATTSSEEL PKKEAPYTLV GSISEPGLGL LSWWTSN.		
Formulation	POLR3H protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl, 10% glycerol and 1mM DTT.		

Introduction

Polymerase (RNA) III (DNA directed) Polypeptide H(POLR3H) is a member of the eukaryotic RPB7/RPC8 RNA polymerase subunit family. POLR3H is DNA-dependent RNA polymerase which catalyzes the transcription of DNA into RNA utilizing the 4 ribonucleoside triphosphates as substrates. POLR3H has a central role in sensing and curbing infection by intracellular bacteria and DNA viruses. POLR3H functions as nuclear and cytosolic DNA sensor which is involved in innate immune response.

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

POLR3H Human Recombinant produced in E.Coli is a single, non-glycosylated

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

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polypeptide chain containing 227 amino acids (1-204 a.a.) and having a molecular mass of 25.3kDa (Molecular size on SDS-PAGE will appear higher).POLR3H is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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