

Recombinant Human POLR3A Protein (392-632 aa), His-SUMO-tagged

Cat. No. POLR3A-730H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human POLR3A Protein (392-632 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Research Area: Epigenetics and Nuclear Signaling. Protein Description: Partial.
Species	Human
Source	E.coli
ProteinLength	392-632 aa
Description	DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Largest and catalytic core component of RNA polymerase III which synthesizes small RNAs, such as 5S rRNA and tRNAs. Forms the polymerase active center together with the second largest subunit. A single-stranded DNA tplate strand of the promoter is positioned within the central active site cleft of Pol III. A bridging helix anates from RPC1 and crosses the cleft near the catalytic site and is thought to promote translocation of Pol III by acting as a ratchet that moves the RNA-DNA hybrid through the active site by switching from straight to bent conformations at each step of nucleotide addition . Plays a key role in sensing and limiting infection by intracellular bacteria and DNA viruses. Acts as nuclear and cytosolic DNA sensor involved in innate immune response. Can sense non-self dsDNA that serves as tplate for transcription into dsRNA. The non-self RNA polymerase III transcripts, such as Epstein-Barr virus-encoded RNAs (EBERs) induce

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	type I interferon and NF- Kappa-B through the RIG-I pathway.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	43.4 kDa
AA Sequence	FPEKVNKANINFLRKLVQNGPEVHPGANFIQQRHTQMKRFLKYGNREKMAQELKYG DIVERHLIDGDVVLFNRPQSLHKLSIMAHLARVKPHRTFRFNECVCTPYNADFDGDE MNLHLPQTEEAKEALVLMGTKANLVTPRNGEPLIAAIQDFLTGAYLLTLKDTFFDRA KACQIIASILVGKDEKIKVRLPPPTILKPVTLWTGKQIFSVILRPSSDDNPVRANLRTKGK QYCGKGEDLC
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with concentration instruction is sent along with the products.

GENE INFORMATION

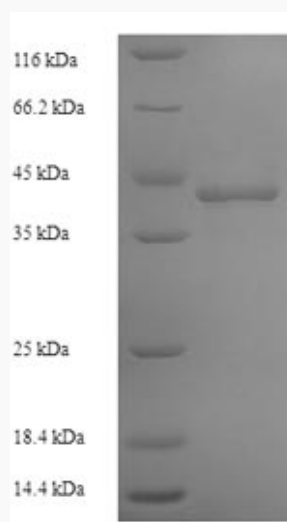
Gene Name	POLR3A polymerase (RNA) III (DNA directed) polypeptide A, 155kDa [Homo sapiens]
Official Symbol	POLR3A

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Synonyms	POLR3A; hRPC155; RPC1; RPC155; ADDH; HLD7;
Gene ID	11128
mRNA Refseq	NM_007055
Protein Refseq	NP_008986
MIM	614258
UniProt ID	O14802



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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