

Recombinant Mouse Polr3e Protein, Myc/DDK-tagged

Cat. No. Polr3e-5006M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length polymerase (RNA) III (DNA directed) polypeptide E (Polr3e), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Specific peripheral component of RNA polymerase III which synthesizes small RNAs, such as 5S rRNA and tRNAs. Essential for efficient transcription from both the type 2 VAI and type 3 U6 RNA polymerase III promoters. 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 template for transcription into dsRNA. The non-self RNA polymerase III transcripts induce type I interferon and NF- Kappa-B through the RIG-I pathway.
Molecular Mass	79.9 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

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Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Polr3e polymerase (RNA) III (DNA directed) polypeptide E [Mus musculus (house mouse)]

Official Symbol Polr3e

Synonyms POLR3E; polymerase (RNA) III (DNA directed) polypeptide E; DNA-directed RNA polymerase III subunit RPC5; RNA polymerase III subunit 5; RNA polymerase III subunit C5; sex-lethal interactor homolog; RNA polymerase III polypeptide E; Sin; RPC5

Gene ID 26939

mRNA Refseq NM_025298

Protein Refseq NP_079574

UniProt ID Q9CZT4

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