

## Recombinant Human RELA, His-tagged

**Cat. No.** RELA-634H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human RELA is produced in Sf21 cells and Fused to a His-tag.
<b>Species</b>	Human
<b>Source</b>	Sf21 Cells
<b>Description</b>	NFKB1 (MIM 164011) or NFKB2 (MIM 164012) is bound to REL (MIM 164910), RELA, or RELB (MIM 604758) to form the NFKB complex. The p50 (NFKB1)/p65 (RELA) heterodimer is the most abundant form of NFKB. The NFKB complex is inhibited by I-kappa-B proteins (NFKBIA, MIM 164008 or NFKBIB, MIM 604495), which inactivate NFKB by trapping it in the cytoplasm. Phosphorylation of serine residues on the I-kappa-B proteins by kinases (IKBKA, MIM 600664, or IKBKB, MIM 603258) marks them for destruction via the ubiquitination pathway, thereby allowing activation of the NFKB complex. Activated NFKB complex translocates into the nucleus and binds DNA at kappa-B-binding motifs such as 5-prime GGGRNNYYCC 3-prime or 5-prime HGGARNYYCC 3-prime (where H is A, C, or T; R is an A or G purine; and Y is a C or T pyrimidine).
<b>Purity</b>	≥95% (SDS-PAGE).
<b>Concentration</b>	0.5mg/ml.
<b>Formulation</b>	Liquid. In 50mM TRIS-HCl, pH 7.5, containing 100mM sodium chloride, 0.2% NP-40, 50-100mM imidazole and 10% glycerol.

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**Specific Activity** ~1ng is required for high mobility shift assay. ~5ng are required for reconstituted transcription assays.

**Storage And Stability** -80°C. After opening, prepare aliquots and store in liquid nitrogen. Avoid freeze/thaw cycles.

## GENE INFORMATION

**Gene Name** [RELA v-rel reticuloendotheliosis viral oncogene homolog A \(avian\) \[ Homo sapiens \]](#)

**Synonyms** RELA; v-rel reticuloendotheliosis viral oncogene homolog A (avian); nuclear factor NF-kappa-B p65 subunit; nuclear factor of kappa light polypeptide gene enhancer in B-cells 3; transcription factor p65; v-rel avian reticuloendotheliosis viral oncogene homolog A (nuclear factor of kappa light polypeptide gene enhancer in B-cells 3 (p65)); v-rel reticuloendotheliosis viral oncogene homolog A, nuclear factor of kappa light polypeptide gene enhancer in B-cells 3, p65; p65; NFKB3; MGC131774

**Gene ID** [5970](#)

**mRNA Refseq** [NM\\_001145138](#)

**Protein Refseq** [NP\\_001138610](#)

**MIM** [164014](#)

**UniProt ID** [Q04206](#)

**Chromosome Location** 11q13

**Pathway** Acute myeloid leukemia; Adipocytokine signaling pathway; B cell receptor signaling

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pathway; Chemokine signaling pathway; Epithelial cell signaling in Helicobacter pylori infection; Leishmania infection; NOD-like receptor signaling pathway; Pancreatic cancer; RIG-I-like receptor signaling pathway; Small cell lung cancer; T cell receptor signaling pathway; Toll-like receptor signaling pathway; Signalling by NGF

**Function**

DNA binding; NF-kappaB binding; promoter binding; protein binding; transcription factor activity; RNA polymerase II transcription factor activity, enhancer binding; identical protein binding; protein complex binding; protein binding; transcription activator binding; transcription factor binding; transcription activator activity; transcription repressor binding; transcription repressor activity

**PDB rendering based  
on 1bft.**



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