

# Human RELA / Transcription factor p65 / NFkB p65 Protein (aa 1-306, GST Tag)

Catalog Number: 12054-H09E



Sino Biological  
Biological Solution Specialist

## General Information

### Gene Name Synonym:

NFKB3; p65

### Protein Construction:

A DNA sequence encoding the human RELA (Q04206-1) RHD domain (Met 1-Tyr 306) was fused with the GST tag at the N-terminus.

**Source:** Human

**Expression Host:** E. coli

## QC Testing

**Purity:** > 70 % as determined by SDS-PAGE

### Endotoxin:

Please contact us for more information.

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** Met

### Molecular Mass:

The recombinant human RELA/GST chimera consists of 540 amino acids and has a predicted molecular mass of 62 kDa. It migrates as an approximately 58 kDa band in SDS-PAGE under reducing conditions.

### Formulation:

Lyophilized from sterile 20mM Tris, 0.15M NaCl, 20mM GST, pH 8.0

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage:

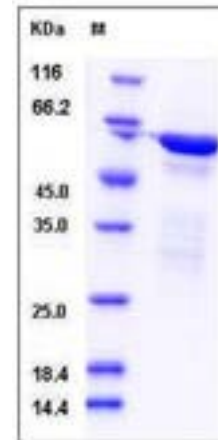
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## Protein Description

RELA (v-rel reticuloendotheliosis viral oncogene homolog A), also known as Nuclear factor NF-kappa-B p65 subunit, or Transcription factor p65, is a transcription factor expressed in growth plate chondrocytes where it facilitates chondrogenesis. The v-rel avian reticuloendotheliosis viral oncogene homolog A (RELA) gene encodes the major component of the NF- $\kappa$ B complex. NF-kappaB is a generic name for an evolutionarily conserved transcription-factor system that contributes to the mounting of an effective immune response but is also involved in the regulation of cell proliferation, development, and apoptosis. The implication of NF-kappaB in central biological processes and its extraordinary connectivity to other signaling pathways raise a need for highly controlled regulation of NF-kappaB activity at several levels. The mammalian Rel/NF-kappaB family of transcription factors, including RelA, c-Rel, RelB, NF-kappaB1 (p50 and its precursor p105), and NF-kappaB2 (p52 and its precursor p100), plays a central role in the immune system by regulating several processes ranging from the development and survival of lymphocytes and lymphoid organs to the control of immune responses and malignant transformation.

## References

- 1.Hashimoto R, *et al.* (2011) Variants of the RELA gene are associated with schizophrenia and their startle responses. *Neuropsychopharmacology*. 36(9): 1921-31.
- 2.Vallabhapurapu S, *et al.* (2009) Regulation and function of NF-kappaB transcription factors in the immune system. *Annu Rev Immunol*. 27: 693-733.
- 3.Schmitz ML, *et al.* (2004) NF-kappaB: a multifaceted transcription factor regulated at several levels. *ChemBiochem*. 5(10): 1348-58.

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