

Recombinant Human RELA Protein, GST-tagged

Cat. No. RELA-622H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human RELA(Met 1-Tyr 306) fused N-terminal GST tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met 1-Tyr 306
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-κB 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.

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Predicted N Terminal	Met
Form	Lyophilized from sterile 20mM Tris, 0.15M NaCl, 20mM GST, pH 8.0 1. Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. 2. Please contact us for any concerns or special requirements.
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.
Purity	> 85 % as determined by SDS-PAGE
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade
Storage	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

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

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Official Symbol	RELA
Synonyms	RELA; v-rel reticuloendotheliosis viral oncogene homolog A (avian); NFkB3, nuclear factor of kappa light polypeptide gene enhancer in B cells 3; transcription factor p65; p65; NF-kappa-B p65delta3; nuclear factor NF-kappa-B p65 subunit; nuclear factor of kappa light polypeptide gene enhancer in B-cells 3; NFkB3; MGC131774;
Gene ID	5970
mRNA Refseq	NM_001145138
Protein Refseq	NP_001138610
MIM	164014
UniProt ID	Q04206

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