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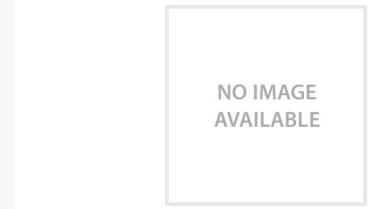
NF-kB p65 highly active Recombinant Protein

Cat. No.: 90-348



NF-kB p65 highly active Recombinant Protein

Specifications

SPECIES:	Human
SOURCE SPECIES:	Sf21 cells
SEQUENCE:	Human NF-kappaB (p65) is fused to a His-tag.
FUSION TAG:	His Tag
TESTED APPLICATIONS:	
APPLICATIONS:	This recombinant proteins is for research use only.

Properties

PURITY:	>95% (SDS-PAGE)
PHYSICAL STATE:	Liquid
BUFFER:	In 50mM TRIS-HCl, pH 7.5, containing 100mM sodium chloride, 0.2% NP-40, 50mM imidazole and 10% glycerol.
CONCENTRATION:	Lot dependent (0.2-1.5mg/ml)
STORAGE CONDITIONS:	Stable for at least 6 months after receipt when stored at -80˚C.

Additional Info

OFFICIAL SYMBOL:	RELA
ALTERNATE NAMES:	Nuclear Factor NF-kappaB p65 Subunit, Transcription Factor p65, RELA
ACCESSION NO.:	Q04206
PROTEIN GI NO.:	223468681
GENE ID:	5970

Background and References

BACKGROUND:	NF-kappaB is a pleiotropic transcription factor present in almost all cell types and is the endpoint of a series of signal transduction events that are initiated by a vast array of stimuli related to many biological processes such as inflammation, immunity, differentiation, cell growth, tumorigenesis and apoptosis. NF-kappaB is a homo- or heterodimeric complex formed by the Rel-like domain-containing proteins RELA/p65, RELB, NFKB1/p105, NFKB1/p50, REL and NFKB2/p52. The heterodimeric p65-p50 complex is the most abundant complex. The dimers bind at kappaB sites in the DNA of their target genes and the individual dimers have distinct preferences for different kappaB sites that they can bind with distinguishable affinity and specificity. Different dimer combinations act as transcriptional activators or repressors, respectively. NF-kappaB complexes are held in the cytoplasm in an inactive state complexed with members of the NF-kappaB inhibitor (I-kappaB) family. In a conventional activation pathway, I-kappaB is phosphorylated by I-kappaB kinases (IKKs) in response to different activators, subsequently degraded thus liberating the active NF-kappaB complex which translocates to the nucleus. NF-kappaB heterodimeric p65-p50 and p65-c-Rel complexes are transcriptional activators. The NF-kappaB p65-p65 complex appears to be involved in invasin-mediated activation of IL-8 expression. p65 shows a weak DNA-binding site which could contribute directly to DNA binding in the NF-kappaB complex.