Recombinant Human Early Growth Response 1

Cat. No. EGR1-2120H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Early Growth Response 1 was produced in*Sf9 cells.*
Species	Human
Source	Sf9 Cells
ProteinLength	1-543 aa
Description	The recombinant EGR-1 protein can be employed in the following fields of research: a) Promoter studies: Identification of EGR-1 binding promoter elements. b) Detection of EGR-1 interacting proteins. c) Signal transduction: Assay for the effect on the nuclear component EGR-1. d) Screening for EGR-1 activity in tumor cells and lines. e) Drug screening: Effect on EGR-1 generation and DNA binding.
Formulation	Liquid. In 20mM HEPES, pH 7.9, containing 25% glycerol, 420mM sodium chloride, 0.2mM EDTA and 1.5mM magnesium chloride.
Quantity	50µ corresponding to >25 band forming units (BFU). Sufficient for performing at least 25 gel shift assays under standard conditions.
Specific Activity	>0.5BFU/µ 1BFU is sufficient to generate a band shift with a labelled oligonucleotide.
Specificity	Binds specifically to an oligonucleotide with the sequence GCG GGG GCG.
Application	EMSA promoter characterization, in vitro transcription assays, analysis of nuclear

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	extracts (oligonucleotides and recombinant protein serve as a positive control).
Storage	Store at -80℃. Avoid freeze/thaw cycles.

GENE INFORMATION

Gene Name	EGR1 early growth response 1 [Homo sapiens]
Synonyms	EGR1; early growth response 1; TIS8; AT225; G0S30; NGFI-A; ZNF225; KROX-24; ZIF-268; EGR-1; zinc finger protein 225; transcription factor ETR103; transcription factor Zif268; zinc finger protein Krox-24; early growth response protein 1; nerve growth factor-induced protein A; KROX24;Protein Krox-243
Gene ID	1958
mRNA Refseq	NM_001964
Protein Refseq	NP_001955
MIM	128990
UniProt ID	P18146
Chromosome Location	5q31.1
Pathway	Prion diseases
Function	DNA binding; double-stranded DNA binding; metal ion binding; protein binding; sequence-specific DNA binding; transcription activator activity; transcription factor activity; zinc ion binding

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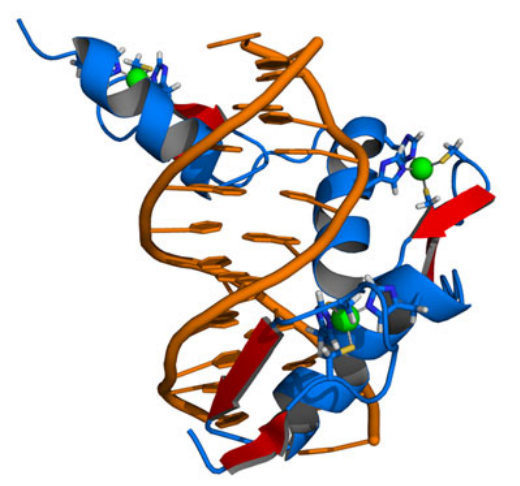
Cartoon representation of Zif268 (blue) containing three zinc fingers in complex with DNA (orange). The coordinating amino acid residues of the middle zinc ion (green) are highlighted.



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