

Active Recombinant *Saccharomyces Cerevisiae* GAL4, His-tagged

Cat. No. GAL4-8480S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant <i>Saccharomyces Cerevisiae</i> GAL4, fused with His tag, was expressed in <i>E. coli</i> .
Species	Yeast
Source	<i>E. coli</i>
Description	Transcriptional activity is greatly stimulated by promoter-specific activator proteins . These are modular proteins, consisting of a DNA-binding domain and a regulatory (activator) domain . The GAL4 protein of yeast activates the transcription of several genes involved in galactose metabolism. This event requires that GAL4 bind to upstream activation sites with the consensus sequence 5-CGGN5(T/A)N5CCG-3 . A fragment of the GAL4 protein, comprising amino acids 1-147, binds DNA but fails to activate transcription . Linking of an acidic synthetic peptide, forming an α-helix (AH), to this GAL4 DNA-binding domain, results in a protein with an amphipathic structure . This fusion protein is able to activate transcription of a gene, bearing the GAL4 binding sites in an in vitro transcription system by targeting TFIIB in the pre-initiation complex.
Form	20 mM Tris-Cl, pH 7.9, 20% Glycerol, 100 mM KCl, 1 mM DTT and 0.2 mM EDTA
Bio-activity	1 unit equals 1 ng of purified protein. 20 units are sufficient for reconstituted transcription assay and 100 units are sufficient for a protein-protein interaction assay.

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AA Sequence	MKLLSSIEQA CDICRLKKLK CSKEKPKCAK CLKNNWECRY SPKTKRSPLT RAHLTEVESR LERLEQLFLL IFPREDLDMI LKMDSLQDIK ALLTGLFVQD NVNKDAVTDR LASVETDMPL TLRQHRISAT SSSEESSNKG QRQLTVSELN ELNELNALLN NN
Purity	>95% as determined by SDS-PAGE
Storage	-80 °C
Concentration	300 µg/ml
Shipping	Dry Ice
GENE INFORMATION	
Gene Name	GAL4 Gal4p [Saccharomyces cerevisiae S288c]
Official Symbol	GAL4
Synonyms	GAL4; GAL81; Gal4p;
Gene ID	855828
mRNA Refseq	NM_001184062
Protein Refseq	NP_015076
UniProt ID	P04386
Chromosome Location	chromosome: XVI

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