

Active Recombinant *Saccharomyces cerevisiae* and Human herpesvirus 2 GAL4(1-147aa)+VP16(411-490aa) protein, His-tagged

Cat. No. GAL4-121SH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant <i>Saccharomyces cerevisiae</i> and Human herpesvirus 2 GAL4(1-147aa)+VP16(411-490aa) protein, was expressed in <i>E. coli</i> , with a his tag.
Species	<i>S.cerevisiae</i>
Source	<i>E.coli</i>
ProteinLength	GAL4(1-147)+VP16(411-490)
Description	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` (1). A fragment of the GAL4 protein, comprising amino acids 1-147, binds DNA but fails to activate transcription (2). Herpes virus VP16 activates expression of immediate early genes in virally-infected cells (3). As most other eukaryotic transcriptional activator proteins, VP16 has a modular domain structure: it's N-terminus is involved in DNA-protein interactions, while it's C-terminal 79 amino acids have proven to be an especially potent transactivation domain (4). When fused to the DNA-binding domain of the yeast GAL4, this VP16 fragment functions as an activator of transcription in yeast, mammalian cells and in vitro transcription assays (5, 6). VP16 has been shown to bind to TBP (7), TFIIB (8), and replication factor A (9). Recombinant GAL4-VP16 is isolated from an <i>E. coli</i> strain that carries the coding

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	sequence of the fused protein under the control of a T7 promoter.
Form	The protein is in 20mM Tris-HCl pH7.9, 100mM NaCl, 0.2mM EDTA, 1mM DTT and 20% glycerol.
Bio-activity	1 unit equals 1 nanogram of purified protein. 20 unit is sufficient for a gel mobility shift assay in a 20 µreaction.
Molecular Mass	27.8 kDa
Purity	>90%
Applications	GAL4-VP16 has been applied in in vitro transcription assays and protein-protein interactions assays.
Storage	Stored at -70°C before use. Avoid repeated freeze thaw cycles.