

Recombinant *S. cerevisiae* GAL4 protein ab81879

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Description

Product name	Recombinant <i>S. cerevisiae</i> GAL4 protein
Purity	> 95 % SDS-PAGE. ab81879 is isolated from an <i>E. coli</i> strain that carries the coding sequence of the fused protein under the control of a T7 promoter.
Expression system	<i>Escherichia coli</i>
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	<i>Saccharomyces cerevisiae</i>
Amino acids	1 to 147
Description	Recombinant <i>S. cerevisiae</i> GAL4 protein

Specifications

Our **Abpromise guarantee** covers the use of **ab81879** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Functional Studies
Form	Liquid
Additional notes	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 {alpha}-helix, 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 TFIIIB in the pre-initiation complex.

Preparation and Storage

Stability and Storage

Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.

pH: 7.9

Constituents: 0.75% Potassium chloride, 0.0154% DTT, 0.316% Tris HCl, 0.00584% EDTA, 20% Glycerol (glycerin, glycerine)

General Info**Function**

Galectin that binds lactose and a related range of sugars. May be involved in the assembly of adherens junctions.

Sequence similarities

Contains 2 galectin domains.

Domain

Contains two homologous but distinct carbohydrate-binding domains.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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