

# Recombinant human DR1 protein

Catalog Number: ATGP0669

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-176aa

### UniProt No.

Q01658

### NCBI Accession No.

NP\_001929.1

### Alternative Names

Down-regulator of transcription 1 TBP-binding, NC2, NC2-BETA, Down-regulator of transcription 1, TBP-binding

## PRODUCT SPECIFICATION

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### Molecular Weight

21.6 kDa (196aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 100mM NaCl, 0.1mM PMSF ,10% glycerol

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

DR1, also known as NC2-beta, is a TBP (TATA box-binding protein) associated phosphoprotein that represses both basal and activated levels of transcription. The protein is phosphorylated in vivo and this phosphorylation affects its interaction with TBP. This protein contains a histone fold motif at the amino terminus, a TBP-binding domain, and a glutamine- and alanine-rich region. By selectively repressing polymerases II and III, DR1 may shift the physiological balance of transcriptional output in favor of polymerase I. Recombinant human DR1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography

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## Amino acid Sequence

<MGSSHHHHH SSGLVPRGSH> MASSSGNDDD LTIPRAAINK MIKETLPNVR VANDARELVV NCCTEFIHLLI SSEANEICNK  
SEKKTISPEH VIQALES LGF GSYISEVKEV LQECKTVALK RPKASSRLEN LGIPEEELLR QQQELFAKAR QQQAELAQQE  
WLQMQQAAQQ AQLAAASASA SNQAGSSQDE EDDDDI

## General References

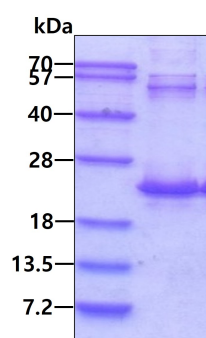
White RJ., et al. (2010) Nucleic Acids Res. 38(4):1228-39.

Collart MA., et al. (2008) Nucleic Acids Res. 36(2):539-49.

## DATA

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### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.