

## Recombinant Human ATF2 Protein (His & GST Tag)

Catalog No. PKSH031071

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

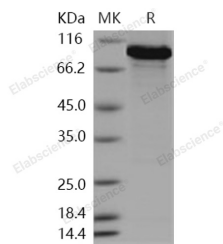
### Description

<b>Synonyms</b>	CRE-BP1;CREB-2;CREB2;HB16;TREB7
<b>Species</b>	Human
<b>Expression Host</b>	Baculovirus-Insect Cells
<b>Sequence</b>	Met 1-Ser 505
<b>Accession</b>	P15336-1
<b>Calculated Molecular Weight</b>	82.4 kDa
<b>Observed molecular weight</b>	85 kDa
<b>Tag</b>	N-His-GST
<b>Bioactivity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 90 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 8.0, 10% glycerol Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

### Data



> 90 % as determined by reducing SDS-PAGE.

### Background

Activating transcription factor 2, also known as ATF2, is a member of the leucine zipper family of DNA-binding proteins that binds to the cAMP response element. Its activity is enhanced after phosphorylation by stress-activated protein kinases

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such as c-Jun N-terminal kinase and p38. ATF2 has been found to be a target of the JNK signal transduction pathway and mediate adenovirus E1A-inducible transcriptional activation. ATF2 is also been reported playing roles in TGF- $\beta$  signaling pathway. It has been shown that the transcription factor ATF2 is bound by a hetero-oligomer of Smad3 and Smad4 upon TGF- $\beta$  stimulation. Studies indicate that ATF-2 plays a central role in TGF- $\beta$  signaling by acting as a common nuclear target of both Smad and TAK1 pathways.