

## Product datasheet

# Recombinant cow Hsc70 protein ab91596

### Description

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<b>Product name</b>	Recombinant cow Hsc70 protein
<b>Biological activity</b>	ATPase Activity Assay: Positive
<b>Expression system</b>	Escherichia coli
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Cow

### Specifications

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Our [Abpromise guarantee](#) covers the use of **ab91596** in the following tested applications.

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

<b>Applications</b>	SDS-PAGE Western blot Functional Studies
<b>Form</b>	Liquid
<b>Additional notes</b>	Endotoxin Concentration: < 50 EU/mg as determined by Limulus Amebocyte Lysate (LAL) gel clot assay

### Preparation and Storage

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<b>Stability and Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.0308% DTT, 0.363% Tris, 0.0292% EDTA, 1.74% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.
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### General Info

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<b>Function</b>	Acts as a repressor of transcriptional activation. Inhibits the transcriptional coactivator activity of CITED1 on Smad-mediated transcription. Chaperone. Isoform 2 may function as an endogenous inhibitory regulator of HSC70 by competing the co-chaperones.
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<b>Tissue specificity</b>	Ubiquitous.
<b>Sequence similarities</b>	Belongs to the heat shock protein 70 family.
<b>Domain</b>	The N-terminal 1-386 residues constitute the ATPase domain, while residues 387-646 form the peptide-binding domain.
<b>Post-translational modifications</b>	Phosphorylated upon DNA damage, probably by ATM or ATR. ISGylated.
<b>Cellular localization</b>	Cytoplasm. Melanosome. Localized in cytoplasmic mRNP granules containing untranslated mRNAs. Translocates rapidly from the cytoplasm to the nuclei, and especially to the nucleoli, upon heat shock. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

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

### **Our Abpromise to you: Quality guaranteed and expert technical support**

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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