

Datasheet for ABIN7548449
HSF4 Protein (AA 1-492) (His tag)



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Overview

| | |
|-------------------------------|---|
| Quantity: | 1 mg |
| Target: | HSF4 |
| Protein Characteristics: | AA 1-492 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This HSF4 protein is labelled with His tag. |

Product Details

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| Purpose: | Custom-made recombinant HSF4 Protein expressed in mammalian cells. |
| Sequence: | <p>MQEAPAAALPT EPGPSPVPAF LGKLWALVGD PGTDHLIRWS PSGTSFLVSD QSRFAKEVLP QYFKHSNMAS FVRQLNMYGF RKVVSIEQGG LLRPERDHVE FQHPSFVRGR EQLLERVRRK VPALRGDDGR WRPEDLGRLG GEVQALRGVQ ESTEARLREL RQQNEILWRE VVTLRQSHGQ QHRVIGKLIQ CLFGPLQAGP SNAGGKRKLS LMLDEGSSCP TPAKFNTCPL PGALLQDPYF IQSPLPETNL GLSPHRARGP IISDIPEDSP SPEGTRLSPS SDGRREKGLA LLKEEPASPG GDGEAGLALA PNECDFCVTA PPPLPVAVVQ AILEGKGSFS PEGPRNAQQP EPGDPREIPD RGPLGLES GD RSPESLLPPM LLQPPQESVE PAGPLDLVLP SLQGREWTLMDLDMELSLMQ PLVPERGEPE LAVKGLNSPS PGKDPTLGAP LLLDVQAALG GPALGLPGAL TIYSTPESRT ASYLGPEASP SP</p> <p>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p> |
| Specificity: | If you are looking for a specific domain and are interested in a partial protein or a different |

Product Details

isoform, please contact us regarding an individual offer.

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade:

custom-made

Target Details

Target:

HSF4

Alternative Name:

HSF4 ([HSF4 Products](#))

Background:

Heat shock factor protein 4 (HSF 4) (hHSF4) (Heat shock transcription factor 4) (HSTF 4),FUNCTION: Heat-shock transcription factor that specifically binds heat shock promoter elements (HSE) (PubMed:22587838, PubMed:23507146). Required for denucleation and organelle rupture and degradation that occur during eye lens terminal differentiation, when fiber cells that compose the lens degrade all membrane-bound organelles in order to provide lens with transparency to allow the passage of light (By similarity). In this process, may regulate denucleation of lens fiber cells in part by activating DNASE2B transcription (By similarity). May be involved in DNA repair through the transcriptional regulation of RAD51 (PubMed:22587838). May up-regulate p53/TP53 protein in eye lens fiber cells, possibly through protein stabilization (PubMed:28981088). In the eye lens, controls the expression of alpha-crystallin B chain/CRYAB and consequently may be involved in the regulation of lysosomal acidification (By similarity). {ECO:0000250|UniProtKB:Q5CZP2, ECO:0000250|UniProtKB:Q9R0L1,

Target Details

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|-------------------|---|
| | ECO:0000269 PubMed:22587838, ECO:0000269 PubMed:23507146, ECO:0000269 PubMed:28981088}., FUNCTION: [Isoform HSF4A]: Transcriptional repressor. {ECO:0000269 PubMed:10488131}., FUNCTION: [Isoform HSF4B]: Transcriptional activator. {ECO:0000269 PubMed:10488131, ECO:0000269 PubMed:16371476}. |
| Molecular Weight: | 53.0 kDa |
| UniProt: | Q9ULV5 |
| Pathways: | MAPK Signaling |

Application Details

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|--------------------|---|
| Application Notes: | We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though. |
| Restrictions: | For Research Use only |

Handling

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|------------------|--|
| Format: | Liquid |
| Buffer: | The buffer composition is at the discretion of the manufacturer. |
| Handling Advice: | Avoid repeated freeze-thaw cycles. |
| Storage: | -80 °C |
| Storage Comment: | Store at -80°C. |
| Expiry Date: | 12 months |