

Recombinant Full Length Human HIKESHI Protein, GST-tagged

Cat. No. HIKESHI-1878HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human HIKESHI full-length ORF (NP_057485.2, 1 a.a. - 197 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	197 amino acids
Description	This gene encodes an evolutionarily conserved nuclear transport receptor that mediates heat-shock-induced nuclear import of 70 kDa heat-shock proteins (Hsp70s) through interactions with FG-nucleoporins. The protein mediates transport of the ATP form but not the ADP form of Hsp70 proteins under conditions of heat shock stress. Structural analyses demonstrate that the protein forms an asymmetric homodimer and that the N-terminal domain consists of a jelly-roll/beta-sandwich fold structure that contains hydrophobic pockets involved in FG-nucleoporin recognition. Reduction of RNA expression levels in HeLa cells using small interfering RNAs results in inhibition of heat shock-induced nuclear accumulation of Hsp70s, indicating a role for this gene in regulation of Hsp70 nuclear import during heat shock stress.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	48 kDa
AA Sequence	MFGCLVAGRLVQTAAQQVAEDKFVFDLPDYESINHVVFMLGTIPFPEGMGGSVYF

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SYPDSNGMPVWQLLGFVTNGKPSAIFKISGLKSGEGSQHPFGAMNIVRTPSVAQIGI
SVELLD SMAQQTPVGNAAVSSVDSFTQFTQKMLDNFYNFASSFAVSQAQMTPSPS
EMFIPANVVLKWYENFQRRLAQNPLFWKT

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name HIKESHI heat shock protein nuclear import factor hikiishi [Homo sapiens (human)]

Official Symbol HIKESHI

Synonyms HLD13; L7RN6; OPI10; HSPC138; HSPC179; C11orf73

Gene ID 51501

mRNA Refseq NM_016401

Protein Refseq NP_057485

MIM 614908

UniProt ID Q53FT3

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