

HOP Recombinant Protein | STIP1 recombinant protein

Recombinant Human HOP

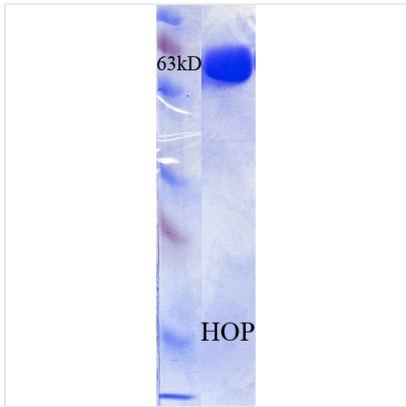
CATALOG # AAA103773	HOST Human	REACTIVITY Human	APPLICATIONS Functional Assay, Western Blot
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PRODUCT SYNONYMS

HOP; Recombinant Human HOP; Hsp co-chaperone; STIP1 recombinant protein

PRODUCT SPECIFICATIONS

Host	Human
Reactivity	Human
Form/Format	Affinity Purified using His tag
Concentration	1mg/mL (varies by lot)
Sequence Length	543
Applicable Applications for STIP1 recombinant protein	FA (Functional Assay), WB (Western Blot)
Certificate of Analysis	This product has been certified >90% pure using SDS PAGE analysis. 4uM SPR-302, when added to 2uM SPR-300 (Aha1)-activated Hsp90 (2uM; His-tagged Hsp90 beta) in 33mM Hepes pH7.2, 30mM NaCl, 5mM MgCl2, 1mM DTT, 1.5mM ATP in a 100ul reaction at 37 degrees C, eliminated all Aha1-mediated ATPase stimulation as well as intrinsic Hsp90 ATPase activity. (This is an enzyme-linked ATP regeneration assay tracking loss of NADH absorbance at 340nm).
Conjugate Tag	His tag
Expression System	E Coli
Storage Buffer	20mM HEPES buffer pH7.2, 80mM NaCl, 10% glycerol
Research Area(s)	Chaperones; Heat Shock; Trafficking
Cellular Localization	Cytoplasm, Nucleus
Preparation and Storage	-20 degree C; Avoid freeze/thaw cycle.



SDS-PAGE
SDS-PAGE of his-tagged human HOP protein (SPR-302).

ADDITIONAL INFORMATION

Related Product Information for STIP1 recombinant protein	Background Info: Molecular weight of approximately 63kDa Scientific Background: Hop (Hsp70/Hsp90 Organizing Protein), or Stress-induced Phosphoprotein 1 (STI1) as it is also known, is a 60kDa protein that belongs to the large group of co-chaperones which regulate and assist the major chaperones. It is located in diverse cellular regions and can move between the cytoplasm and the nucleus. It functions to reversibly link together the protein chaperones Hsp70 and Hsp90. HOP contains three tetratricopeptide repeat (TPR) domains, TPR1, TPR2a and TPR2b. Hsp70 binding has been localized to TRP1 and sp90 binding have been localized to TPR2a (1). It has also been found to modulate the chaperone activities of the linked proteins and possible interacts with other chaperones and proteins. It has also been found to participate in other complexes besides the Hsp70/Hsp90 one (2). HOP is closely related to human 63kDa protein that is sensitive to simian virus SV40 transformation, and is related to the yeast heat-shock- responsive STI1 gene product (3, 4).
Product Categories/Family for STIP1 recombinant protein	Chaperones; Heat Shock; Trafficking
References	1. Flom G., Behal R.H., Rosen L., Cole D.G., Johnson J.L. (2007) Biochem J. 404(1): 159-167. 2. Harst A., Lin H., Obermann W.M. (2005) Biochem J. 387 (pt3): 789-796. 3. Honore B.H., et al. (1992) J Biol Chem. 267: 8485- 8491. 4. Nicolet C.M., et al. (1989) Mol Cell Bio. 9: 3638-3646.

NCBI AND UNIPROT INFORMATION

NCBI GI #	5803181
NCBI GeneID	10963
NCBI Accession #	NP_006810.1
NCBI GenBank Nucleotide #	NM_006819.2
UniProt Accession #	P31948; Q3ZCU9; Q5TZU9; B4DM70; F5H0T1; G3XAD8
Molecular Weight	~63kD
NCBI Official Full Name	stress-induced-phosphoprotein 1 isoform b
NCBI Official Synonym Full Names	stress-induced phosphoprotein 1
NCBI Official Symbol	STIP1
NCBI Official Synonym Symbols	HOP; P60; STI1; STI1L; HEL-S-94n; IEF-SSP-3521
NCBI Protein Information	stress-induced-phosphoprotein 1; NY-REN-11 antigen; Hsp70/Hsp90-organizing protein; hsc70/Hsp90-organizing protein; renal carcinoma antigen NY-REN-11; transformation-sensitive protein IEF SSP 3521; epididymis secretory sperm binding protein Li 94n

UniProt Protein Name	Stress-induced-phosphoprotein 1
UniProt Gene Name	STIP1
UniProt Synonym Gene Names	STI1; Hop
UniProt Entry Name	STIP1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/stip1-recombinant-protein-human-fa-functional-assay-wb-western-blot/103773>