

Datasheet for ABIN3081450

## HPS6 Protein (AA 1-775) (Strep Tag)



[Go to Product page](#)

### Overview

Quantity:	250 µg
Target:	HPS6
Protein Characteristics:	AA 1-775
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This HPS6 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

### Product Details

Brand:	AliCE®
Sequence:	<p>MKRSGTLRL SDLSAFGGAA RLRELVAGDS AVRVRGSPDG RHLLLLRPPG AVAPQLLVAS</p> <p>RGPGAELERA WPAGQPSPLD AFFLPWPAP ALVLVWESGL AEVWGAGVGP GWRPLQSTEL</p> <p>CPGGGARVVA VAALRGRLVW CEERQARAEG PSGSPAAAFS HCVCVRTLEP SGEASTSLGR</p> <p>THVLLHHCPA FGLLASCRQL FLVPTATTWP GVAHVLLIWS PGKGKVMVAA PRLGLSYSKS</p> <p>LNPGRGDTWD FRTLLRGLPG LLSPREPLAV HTWAPTQGL LLLDFGGTVS LLQSHGGTRA</p> <p>VGTLQEAPVG PWGSAALGTF QGTACVLGS TLELLDMGSG QLLERKVLST DRVHLEPPA</p> <p>PGMEDEEELE TRGNLRLLSA LGLFCVGWEA PQGVELPSAK DLVFEEACGY YQRRSLRGAQ</p> <p>LTPEELRHSS TFRAPQALAS ILQGHLPSPA LLTMLRTEL DYRGLEQLKA QLVAGDDEEA</p> <p>GWTELAEQEV ARLLRTELIG DQLAQLNTVF QALPTAAWGA TLRALQLQLD GNGKLRSQAP</p> <p>PDVWKKVLGG ITAGKEPPNG ILPPFELLQ CLCQLEPRWL PPFVELAQQQ GGPGWGAGGP</p> <p>GLPLYRRALA VLGEETRPE ALELELLLSS GRPKAVLQAV GQLVQKEQWD RALDAGLALG</p>

PSSPLLRSEI FKLLLAFAQ HRRLEAHLPL LCRLCPPELA PAELLLLRT YLPDEVGPPPT  
PFPEPGAEP LTVGLLKALL EQTGAQWLS GPVLSPEYDI LWDPTPPPT PPRDL

**Sequence without tag. The proposed Strep-Tag is based on experience s 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.**

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### Characteristics:

#### Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

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.

#### Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

#### Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

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### Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

## Product Details

Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade: custom-made

## Target Details

Target: HPS6

Alternative Name: HPS6 ([HPS6 Products](#))

Background: BLOC-2 complex member HPS6 (Hermansky-Pudlak syndrome 6 protein) (Ruby-eye protein homolog) (Ru),FUNCTION: May regulate the synthesis and function of lysosomes and of highly specialized organelles, such as melanosomes and platelet dense granules (PubMed:17041891). Acts as a cargo adapter for the dynein-dynactin motor complex to mediate the transport of lysosomes from the cell periphery to the perinuclear region. Facilitates retrograde lysosomal trafficking by linking the motor complex to lysosomes, and perinuclear positioning of lysosomes is crucial for the delivery of endocytic cargos to lysosomes, for lysosome maturation and functioning (PubMed:25189619). {ECO:0000269|PubMed:17041891, ECO:0000269|PubMed:25189619}.

Molecular Weight: 83.0 kDa

UniProt: [Q86YV9](#)

## Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Comment: ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.

During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Application Details

Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months