

Datasheet for ABIN3092942
HGS Protein (AA 1-777) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	HGS
Protein Characteristics:	AA 1-777
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This HGS protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AlIcE®
Sequence:	<p>MGRGSGTFER LLDKATSQLL LETDWESILQ ICDLIRQGD TQAKYAVNSIK KKVNDKNPHV</p> <p>ALYALEVMES VVKNCGQTVH DEVANKQTME ELKDLLKRQV EVNVRNKILY LIQAWAHAFR</p> <p>NEPKYKVVQD TYQIMKVEGH VFPEFKESDA MFAAERAPDW VDAEECHRCR VQFGVMTRKH</p> <p>HCRACGQIFC GKCSSKYSTI PKFGIEKEVR VCEPCYEQLN RKAEGKATST TELPPEYLTS</p> <p>PLSQSQLPP KRDETALQEE EELQLALALS QSEAEKERL RQKSTYTSYP KAEPMPSSASS</p> <p>APPASSLYSS PVNSSAPLAE DIDPELARYL NRNYWEKKQE EARKSPTPSA PVPLTEPAAQ</p> <p>PGEHGAAPTN VVENPLPETD SQPIPPSGGP FSEPQFHNGE SEESHEQFLK ALQNAVTTFV</p> <p>NRMKSNHMRG RSITNDSAVL SLFQSINGMH PQLLELLNQL DERRLYYEG LQDKLAQIRDA</p> <p>RGALSALREE HREKLRRAAE EAERQRQIQL AQKLEIMRQK KQEYLEVQRQ LAIQRLQEQE</p> <p>KERQMRLEQQ KQTVQMRAQM PAFPLPYAQL QAMPAAGGVL YQPSGPASFP STFSPAGSVE</p> <p>GSPMHGVYMS QPAPAAGPYP SMPSTAADPS MVSAYMYPAG ATGAQAAPQA QAGPTASPAY</p>

SSYQPTPTAG YQNVASQAPQ SLPAISQPPQ SSTMGYMGSQ SVSMGYQPYN MQNLMTTLPS
QDASLPPQQP YIAGQQPMYQ QMAPSGGPPQ QQPPVAQQPQ AQGPPAQGSE AQLISFD

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.

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.

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: HGS

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

Background: Hepatocyte growth factor-regulated tyrosine kinase substrate (Hrs) (Protein pp110),FUNCTION: Involved in intracellular signal transduction mediated by cytokines and growth factors. When associated with STAM, it suppresses DNA signaling upon stimulation by IL-2 and GM-CSF. Could be a direct effector of PI3-kinase in vesicular pathway via early endosomes and may regulate trafficking to early and late endosomes by recruiting clathrin. May concentrate ubiquitinated receptors within clathrin-coated regions. Involved in down-regulation of receptor tyrosine kinase via multivesicular body (MVBs) when complexed with STAM (ESCRT-0 complex). The ESCRT-0 complex binds ubiquitin and acts as a sorting machinery that recognizes ubiquitinated receptors and transfers them to further sequential lysosomal sorting/trafficking processes. May contribute to the efficient recruitment of SMADs to the activin receptor complex. Involved in receptor recycling via its association with the CART complex, a multiprotein complex required for efficient transferrin receptor recycling but not for EGFR degradation.

Molecular Weight: 86.2 kDa

UniProt: [O14964](#)

Pathways: [EGFR Signaling Pathway](#), [CXCR4-mediated Signaling Events](#), [Synaptic Vesicle Exocytosis](#), [EGFR Downregulation](#)

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.

Application Details

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!

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 Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months