

Datasheet for ABIN3092885 HAP1 Protein (AA 1-671) (Strep Tag)



Overview

Quantity:	250 µg
Target:	HAP1
Protein Characteristics:	AA 1-671
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This HAP1 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	MRPKRLGRCC AGSRLGPGDP AALTCAPSPS ASPAPEPSAQ PQARGTGQRV GSRATSGSQF
	LSEARTGARP ASEAGAKAGA RRPSAFSAIQ GDVRSMPDNS DAPWTRFVFQ GPFGSRATGR
	GTGKAAGIWK TPAAYVGRRP GVSGPERAAF IRELEEALCP NLPPPVKKIT QEDVKVMLYL
	LEELLPPVWE SVTYGMVLQR ERDLNTAARI GQSLVKQNSV LMEENSKLEA LLGSAKEEIL
	YLRHQVNLRD ELLQLYSDSD EEDEDEEEEE EEKEAEEEQE EEEAEEDLQC AHPCDAPKLI
	SQEALLHQHH CPQLEALQEK LRLLEEENHQ LREEASQLDT LEDEEQMLIL ECVEQFSEAS
	QQMAELSEVL VLRLENYERQ QQEVARLQAQ VLKLQQRCRM YGAETEKLQK QLASEKEIQM
	QLQEESVWVG SQLQDLREKY MDCGGMLIEM QEEVKTLRQQ PPVSTGSATH YPYSVPLETL
	PGFQETLAEE LRTSLRRMIS DPVYFMERNY EMPRGDTSSL RYDFRYSEDR EQVRGFEAEE
	GLMLAADIMR GEDFTPAEEF VPQEELGAAK KVPAEEGVME EAELVSEETE GWEEVELELD
	EATRMNVVTS ALEASGLGPS HLDMNYVLQQ LANWQDAHYR RQLRWKMLQK GECPHGALPA

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ASRTSCRSSC R

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 posttranslational 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®).

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Product Details

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

 Grade:
 custom-made

Target Details

Target:	HAP1
Alternative Name:	HAP1 (HAP1 Products)
Background:	Huntingtin-associated protein 1 (HAP-1) (Neuroan 1),FUNCTION: Originally identified as
	neuronal protein that specifically associates with HTT/huntingtin and the binding is enhanced
	by an expanded polyglutamine repeat within HTT possibly affecting HAP1 interaction
	properties. Both HTT and HAP1 are involved in intracellular trafficking and HAP1 is proposed to
	link HTT to motor proteins and/or transport cargos. Seems to play a role in vesicular transport
	within neurons and axons such as from early endosomes to late endocytic compartments and
	to promote neurite outgrowth. The vesicular transport function via association with
	microtubule-dependent transporters can be attenuated by association with mutant HTT.
	Involved in the axonal transport of BDNF and its activity-dependent secretion, the function
	seems to involve HTT, DCTN1 and a complex with SORT1. Involved in APP trafficking and
	seems to facilitate APP anterograde transport and membrane insertion thereby possibly
	reducing processing into amyloid beta. Involved in delivery of gamma-aminobutyric acid
	(GABA(A)) receptors to synapses, the function is dependent on kinesin motor protein KIF5 and
	is disrupted by HTT with expanded polyglutamine repeat. Involved in regulation of
	autophagosome motility by promoting efficient retrograde axonal transport. Seems to be
	involved in regulation of membrane receptor recycling and degradation, and respective signal
	transduction, including GABA(A) receptors, tyrosine kinase receptors, EGFR, IP3 receptor and
	androgen receptor. Among others suggested to be involved in control of feeding behavior
	(involving hypothalamic GABA(A) receptors), cerebellar and brainstem development (involving
	AHI1 and NTRK1/TrkA), postnatal neurogenesis (involving hypothalamic NTRK2/TrkB), and
	ITPR1/InsP3R1-mediated Ca(2+) release (involving HTT and possibly the effect of mutant
	HTT). Via association with DCTN1/dynactin p150-glued and HTT/huntingtin involved in
	cytoplasmic retention of REST in neurons. May be involved in ciliogenesis. Involved in
	regulation of exocytosis. Seems to be involved in formation of cytoplasmic inclusion bodies
	(STBs). In case of anomalous expression of TBP, can sequester a subset of TBP into STBs,
	sequestration is enhanced by an expanded polyglutamine repeat within TBP. HAP1-containing
	STBs have been proposed to play a protective role against neurodegeneration in Huntigton
	disease (HD) and spinocerebellar ataxia 17 (SCA17). {ECO:0000269 PubMed:18922795}.

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Target Details	
Molecular Weight:	75.5 kDa
UniProt:	P54257
Pathways:	Cell RedoxHomeostasis, Smooth Muscle Cell Migration, Positive Regulation of Response to DNA Damage Stimulus
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!
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

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