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OOEP Protein (AA 1-149) (Strep Tag)



Go to Product page

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Quantity:	1 mg
Target:	OOEP
Protein Characteristics:	AA 1-149
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This OOEP protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MVDDAGAAES QRGKQTPAHS LEQLRRLPLP PPQIRIRPWW FPVQELRDPL VFYLEAWLAD

ELFGPDRAII PEMEWTSQAL LTVDIVDSGN LVEITVFGRP RVQNRVKSML LCLAWFHREH

RARAEKMKHL EKNLKAHASD PHSPQDPVA

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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 in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

- 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
- Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Endotoxin Level:

Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

Target Details

Target:	OOEP .	
Alternative Name:	OOEP (OOEP Products)	
Background:	Oocyte-expressed protein homolog (KH homology domain-containing protein 2) (Oocyte- and	
	embryo-specific protein 19) (hOEP19),FUNCTION: As part of the OOEP-KHDC3L scaffold,	
	recruits BLM and TRIM25 to DNA replication forks, thereby promoting the ubiquitination of BLM	
	by TRIM25, enhancing BLM retainment at replication forks and therefore promoting stalled	
	replication fork restart (By similarity). Positively regulates the homologous recombination-	
	mediated DNA double-strand break (DSB) repair pathway by regulating ATM activation and	
	RAD51 recruitment to DSBs in oocytes (By similarity). Thereby contributes to oocyte survival	
	and the resumption and completion of meiosis (By similarity). As a member of the subcortical	
	maternal complex (SCMC), plays an essential role for zygotes to progress beyond the first	
	embryonic cell divisions via regulation of actin dynamics (By similarity). Required for the	
	formation of F-actin cytoplasmic lattices in oocytes which in turn are responsible for symmetric	
	division of zygotes via the regulation of mitotic spindle formation and positioning (By similarity)	
	{ECO:0000250 UniProtKB:Q9CWE6}.	
Molecular Weight:	17.2 kDa	
UniProt:	A6NGQ2	
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. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)