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# RAD23A Protein (AA 1-363) (Strep Tag)





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Quantity:	1 mg
Target:	RAD23A
Protein Characteristics:	AA 1-363
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RAD23A protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), ELISA, Western Blotting (WB)

### **Product Details**

### Sequence:

MAVTITLKTL QQQTFKIRME PDETVKVLKE KIEAEKGRDA FPVAGQKLIY AGKILSDDVP
IKEYHIDEKN FVVVMVTKAK AGQGIPAPPE ASPTAVPEPS TPFPPVLASG MSHPPPTSRE
DKSPSEESTT TTSPESISGS VPSSGSSGRE EDAASTLVTG SEYETMLTEI MSMGYERERV
VAALRASYNN PHRAVEYLLT GIPGSPEPEH GSVQESQAPE QPATEAAGEN PLEFLRDQPQ
FQNMRQVIQQ NPALLPALLQ QLGQENPQLL QQISRHQEQF IQMLNEPPGE LADISDVEGE
VGAIGEEAPQ MNYIQVTPQE KEAIERLKAL GFPESLVIQA YFACEKNENL AANFLLSQNF DDE

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 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.

Product Details		
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)	
Grade:	Crystallography grade	
Target Details		
Target:	RAD23A	
Alternative Name:	Rad23a (RAD23A Products)	
Background:	UV excision repair protein RAD23 homolog A (HR23A) (mHR23A),FUNCTION: Multiubiquitin chain receptor involved in modulation of proteasomal degradation. Binds to 'Lys-48'-linked polyubiquitin chains in a length-dependent manner and with a lower affinity to 'Lys-63'-linked polyubiquitin chains. Proposed to be capable to bind simultaneously to the 26S proteasome and to polyubiquitinated substrates and to deliver ubiquitinated proteins to the proteasome (By similarity). {ECO:0000250}., FUNCTION: Involved in nucleotide excision repair and is thought to be functional equivalent for Rad23b in global genome nucleotide excision repair (GG-NER) by association with Xpc. In vitro, the XPC:RAD23A dimer has NER activity. Can stabilize Xpc. Reported differences to Rad23b in regard to NER activity and Xpc stabilization are probably due to differences in expression levels with Rad23a being much less expressed than Rad23b. {ECO:0000269 PubMed:12815074, ECO:0000269 PubMed:15336624}.	
Molecular Weight:	39.7 kDa	
UniProt:	P54726	
Pathways:	DNA Damage Repair	
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

# **Application Details**

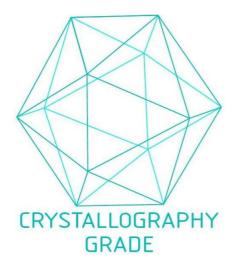
components needed for protein production (amino acids, cofactors, etc.)	) are added to produce
something that functions like a cell, but without the constraints of a living	g system - all that's
needed is the DNA that codes for the desired protein!	
For Research Use only	

# Handling

Restrictions:

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)

## Images



**Image 1.** "Crystallography Grade" protein due to multi-step, protein-specific purification process