

Transcriptional Regulator

Protein Catalogue

AROS - Active regulator of SIRT1

Product specification

Acronym: AROS

Class: Transcriptional regulator

Origin: Human

Molecular weight: 15,4 kDa

Application: Screening & display technologies,
Structural biology

Purity: >60%

Activity: To be tested

Length: Full Length

TMD: 0

Biological function: Active regulator of SIRT1,
ribosome biogenesis

Product description

AROS is a direct active regulator of SIRT1, an NAD⁺-dependent deacetylase. The binding of AROS to the deacetylase upregulate SIRT1. AROS localizes in the nucleus and the cytoplasmic ribosomes. The nuclear protein AROS (also termed 40S ribosomal protein S19-binding protein 1) enhances SIRT1-mediated deacetylation of p53/TP53, thereby participating in inhibition of p53/TP53-mediated transcriptional activity. Depletion of AROS enhances p21 expression and increases both the G0/G1 population and apoptosis in response to DNA damage, whereas AROS overexpression improves cell survival.

Protein Source: AROS wild type protein

Fig.1: AA sequence of AROS protein

10	20	30	40	50
MSAALLRRGL	ELLAASEAPR	DPPGQAKPRG	APVKRPRKTK	AIQAQKLRNS
60	70	80	90	100
AKGKVPKSAL	DEYRKRECRD	HLRVNLKFLT	RTRSTVAESV	SQQILRQNRG
110	120	130		
RKACDRPVAK	TKKKKAEGTV	FTEEDFQKFQ	QEYFGS	

Affinity Tag: Histidine tag fused to the N-terminal end of the protein.

Production conditions: AROS is expressed in a cell-free expression system. 100 µg can be produced and qualified in about 1 week.

Quality analysis

Purity: Typically > 60% as determined by SDS-Page and Coomassie Blue staining.

Purification procedure: As standard, AROS is purified on a nickel-nitrilotriacetic acid resin.

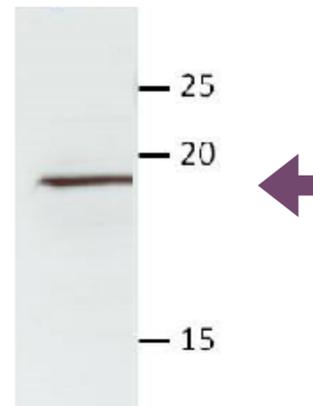


Fig.2: AROS after purification (Western blot identification).

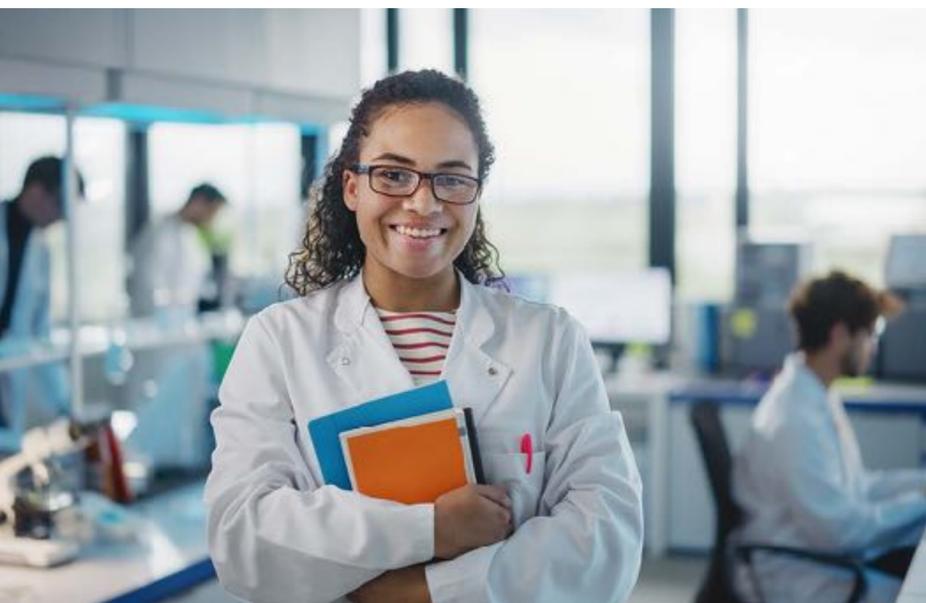
Formulation

Buffer: Available in Tris 50mM, pH 7.5. Other buffers or customized formulation can be provided upon request.

Storage/Stability: Store at +4°C for up to one week or several months at -80°C. Aliquot for storage. Do not freeze-thaw after aliquoting.

Use restrictions: For life science research use only.

Available sizes: 10µg, 20µg, 100 µg, 200 µg, 500 µg, bulk



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any additional information?
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