

## Angiogenin-4 Protein, Mouse (P.pastoris, His-SUMOstar)

Cat. No.:	HY-P71826
Synonyms:	Ang4Angiogenin-4; EC 3.1.27.-
Species:	Mouse
Source:	P. pastoris
Accession:	Q3TMQ6 (Q25-P144)
Gene ID:	219033
Molecular Weight:	Approximately 33 kDa

### PROPERTIES

AA Sequence	<p>Q N E R Y E K F L R    Q H Y D A K P N G R    D D R Y C E S M M K    E R K L T S P C K D</p> <p>V N T F I H G T K K    N I R A I C G K K G    S P Y G E N F R I S    N S P F Q I T T C T</p> <p>H S G A S P R P P C    G Y R A F K D F R Y    I V I A C E D G W P    V H F D E S F I S P</p>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	<p>Angiogenin-4 (ANG4), exhibits notable bactericidal activity against <i>E. faecalis</i> and <i>L. monocytogenes</i>, distinguishing its antimicrobial effects. However, it does not demonstrate bactericidal activity against <i>L. innocua</i> and <i>E. coli</i>. Besides its antimicrobial role, ANG4 also plays a role in promoting angiogenesis in vitro, showcasing its involvement in the formation of new blood vessels. Despite having low ribonuclease activity in vitro, ANG4 stands out in its ability to stimulate the proliferation of melanoma cells, while showing no such effect on endothelial cells or fibroblasts in vitro. These multifaceted functions of ANG4 highlight its diverse roles in host defense, angiogenesis, and cell proliferation, suggesting potential implications for therapeutic strategies targeting infections and cancer. Further research is essential to unravel the specific molecular mechanisms underlying these activities.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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