

Defensin-like protein 1 Protein, Dahlia merckii, Recombinant (B2M & His)

General Information

Synonyms:	Defensin AMP1 (DmAMP1);Cysteine-rich antimicrobial protein 1;Defensin-like protein 1
Protein Construction:	1-50 aa
Species:	Dahlia merckii
Expression Host:	E. coli
Accession:	P0C8Y4
Molecular Weight:	19.5 kDa (predicted)
AA Sequence:	ELCEKASKTWSGNCGNTGHCDNQCKSWEGAAHGACHVRNGKHMCFYFNC

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Possesses antimicrobial activity sensitive to inorganic cations. Has no inhibitory effect on insect gut alpha-amylase. Induces potential changes in fungal membranes and increased K⁺ efflux and Ca⁽²⁺⁾ uptake. Interacts with sphingolipids and ergosterols found in fungal plasma membranes.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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