

## Vaccinia virus (strain Copenhagen) OPG065 Protein (His & Myc)

### General Information

Synonyms:	OPG065;p25;RNA-binding protein E3;RNA-binding protein OPG065
Protein Construction:	1-190 aa
Species:	VACV
Expression Host:	E. coli
Accession:	P21081
Molecular Weight:	28.5 kDa (predicted)
AA Sequence:	MSKIYIDERSDAEIVCAAIKNIGIEGATAAQLTRQLNMEKREVNKALYDLQRSAMVYSSDDIPPRWFMTEAD KPDADAMADVIIDDVSREKSMREDHKSFDVIPAkkIIDWKDANPVTIINEYCQITKRDWSFRIESVGPSNSPT FYACVDIDGRVFDKADGKSKRDAKNNAAKLAVDKLLGYVIIRF

### 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:	> 85% 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

Plays a role in the inhibition of multiple cellular antiviral responses activated by dsRNA, such as inhibition of PKR activation, apoptosis, and IFN-mediated antiviral activities. Blocks also the phosphorylation and subsequent activation of IRF3 and IRF7 kinases that are required for interferon-alpha gene expression. Inhibits NF-kappa-B activation and the ubiquitin-like protein ISG15, which is an early antiviral protein. The binding with host ISG15 subsequently blocks host ISGylation. Inhibits ZBP1-dependent necroptosis via interaction with host ZBP1.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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