

## Vaccinia virus (strain Western Reserve) OPG057 Protein (His &amp; Myc)

## General Information

Synonyms:	37 kDa protein;p37K;Envelope phospholipase OPG057;OPG057;Envelope phospholipase F13; Palmitoylated EV membrane protein
Protein Construction:	1-372 aa
Species:	VACV
Expression Host:	E. coli
Accession:	P04021
Molecular Weight:	49.2 kDa (predicted)
AA Sequence:	MWPFASVPAGAKCRLVETLPENMDFRSDHLTTFEFCNEIITLAKKYIYIASFCNPLSTTRGALIFDKLKEASEKG IKIIVLLDERGKRNLGELQSHCPDINFITVNIDKKNVGLLLGCFWVSDDERCYVGNASFTGGSIHTIKTLGVYSD YPPLATDLRRRFDTFKAFNSAKNSWLNLCSAACLPVSTAYHIKNPIGGVFFTDSPHELLGYSRDLDTDVVIDK LKSAKTSIDIEHLAIVPTTRVDGNSYYWPDYNSIIEAAINRGVKIRLLVGNWDKNDVYSMATARSLDALCVQN DLSVKVFTIQNNTKLLIVDDEYVHITSANFDGTHYQNHGFVFSNSIDKQLVSEAKKIFERDWWSSHSKSLKI

## 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/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

## Preparation and Storage

## Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100  $\mu$ g/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

## Stability &amp; 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

## A DRUG SCREENING EXPERT

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Major envelope protein that plays a role in the biogenesis of the viral double membrane and in egress of virus from the host cell. Produces the wrapped form of virus that is required for cell-to-cell spread. Acts as a lipase with broad specificity including phospholipase C, phospholipase A, and triacylglycerol lipase activities.

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

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