

## GRA3 Protein, Toxoplasma gondii, Recombinant (His)

### General Information

Synonyms:	GRA3;Tg556;Dense granule protein 3;P30
Protein Construction:	43-114 aa
Species:	Toxoplasma gondii
Expression Host:	E. coli
Accession:	B6KEU8
Molecular Weight:	10.8 kDa (predicted)
AA Sequence:	ADQPENHQALAEPTGVGEAGVSPVNEAGESYSSATSGVQEATAPGAVLLDAIDAESDKVDNQAEGGERM KK

### 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:	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 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### 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

Direct host-parasite interaction occurs at the cytoplasmic faces of the parasitophorous vacuole membrane (PVM) and the host endoplasmic reticulum (ER) membrane via GRA3 and host CAMLG association. Direct insertion of GRA3 ER retrieval motif into the host ER membrane contributes to the host ER recruitment to the PVM.

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