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## Product Data Sheet

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Product Name: Toxoplasma P35  
Cat. No.: GP26435  
Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	Dense granule protein GRA8, GRA8, TGME49_254720		
Formulation	Toxoplasma P35 solution contains 0.5mM EDTA, Phosphate buffered saline, pH 7.4.		

### Introduction

The life cycle of *Toxoplasma gondii* has 2 phases. The coccidia like takes place only in members of the Felidae family which makes these animals the parasite's primary host. The asexual part of the life cycle can take place in any warm-blooded animal, like other mammals (including felines) and birds. *T. gondii* constructing daughter scaffolds within the mother cell. In the intermediate hosts (including felines), the parasite invades cells, forming intracellular so-called parasitophorous vacuoles containing bradyzoites, the slowly replicating form of the parasite. Vacuoles form tissue cysts mainly within the muscles and brain. Since they are within cells, the host's immune system does not detect these cysts. Resistance to antibiotics varies, but the cysts are very difficult to eradicate entirely. Within these vacuoles *T. gondii* propagates by a series of binary fissions until the infected cell eventually bursts and tachyzoites are released. Tachyzoites are the motile, asexually reproducing form of the parasite. Unlike the bradyzoites, the free tachyzoites are usually efficiently cleared by the host's immune response, although some manage to infect cells and form bradyzoites, thus maintaining the infection. Recombinant *Toxoplasma Gondii* P35 (GRA8) is an antigen used to test the specific *Toxoplasma gondii* antibody for the diagnosis of *Toxoplasma gondii* infection.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

**Caution: Product has not been fully validated for medical applications. For research use only.**

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

Recombinant Toxoplasma Gondii P35 (GRA8) containing 217 amino acids was purified from E. coli. The Recombinant Toxoplasma Gondii P35 (GRA8) is fused to GST tag at its N terminal and purified by proprietary chromatographic technique.

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