

Recombinant Toxoplasma gondii GRA7 protein

Cat. No. GRA7-893T **Lot. No.** (See product label)

SPECIFICATION

Product Overview

The E.coli derived recombinant protein contains the p29 (GRA7) immunodominant regions, amino acids 24-100.

Species

T.gondii

Source

E.coli

ProteinLength

aa24-100

Description

The life cycle of Toxoplasma gondii has two 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 parasit. 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.

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Form	Each vial contains 100 g of lyophilized protein in 50mM Tris-HCl, 1.5 M urea and 50% glycerol. Reconstitute the protein with 100 µl of Millipore water.
Purity	>95%, based on SDS PAGE
Applications	WB standard, antibody ELISA, immunogen, etc.
Storage	Keep it at 4°C if used within a month. For long term storage, split it into small aliquots and keep at -80°C . Avoid repeated freezing and thawing. The product will be expired one year after receiving if stored properly. Non-hazardous. No MSDS required.

GENE INFORMATION

Gene Name	GRA7 dense granule protein GRA7 [<i>Toxoplasma gondii</i> ME49]
Official Symbol	GRA7
Synonyms	P29; GRA7; dense granule protein GRA7
Gene ID	7894037
mRNA Refseq	XM_002367572.2
Protein Refseq	XP_002367613.1
UniProt ID	A0A125YI90

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