

Recombinant Toxoplasma Gondii TGSAG2 protein, His-tagged

Cat. No. TGSAG2-271T Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Toxoplasma Gondii P22 (SAG2) produced in E.coli is a full length Surface antigen 2 (SAG2) and fused with a 6xHis tag at C- terminus.
Species	T.gondii
Source	E.coli
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.
Form	Sterile Filtered solution. Sterile Filtered solution containing Phosphate buffered saline.

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Purity	Toxoplasma protein is >95% pure as determined by 12% PAGE (coomassie staining).
Applications	Immunoassay.
Usage	The products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.
Specificity	Recombinant SAG2 is effective in detecting IgG to Toxoplasma gondii in human patients with acute toxoplasmosis. It can be used as an antigen in ELISA to test T. gondii infection in domestic cats as well.
Storage	Toxoplasma P22 although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.
Shipping	Ice Packs
Full Length	Full L.

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