

Recombinant Toxoplasma Gondii Profilin Family Protein

Cat. No. TGME49_093690-2378T **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Toxoplasma gondii full length profilin (aa 1-163) produced in <i>E. coli</i> fused to a N-terminal tag. 47kDa.
Species	T.gondii
Source	E.coli
ProteinLength	1-163 a.a.
Description	The initial recognition of pathogens during host defense is mediated by a family of receptors termed toll-like receptors (TLR). TLRs recognize conserved microbial components, termed pathogen-associated molecular patterns (PAMPs). To date, 11 TLRs have been cloned in mammals and each receptor appears to be involved in the recognition of a unique set of PAMPs that are distinct in their chemical nature and structure. TLR11 has a role in uropathogenic <i>E. coli</i> infection and senses the profilin protein from the protozoan parasite Toxoplasma gondii. Profilins are a class of small actin-binding proteins present only in eukaryotic cells. <i>T. gondii</i> profilin shares significant homology only with profilin genes from other apicomplexan protozoa, such as the malaria parasite, Plasmodium falciparum, suggesting that TLR11 may be involved in the recognition of these parasites.
Source/Host	<i>E. coli</i> .
Endotoxin Content	<0.1EU/g purified protein (LAL test; Bio Whittaker).

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Concentration	0.1mg/ml after reconstitution.
Reconstitution	Reconstitute with 100µl sterile, endotoxin-free water. Further dilutions should be made with medium containing 5% fetal calf serum.
Specificity	Binds to mouse TLR11.
Biological Activity	Activates and induces TLR11-dependent IL-12p40 production from dendritic cells.
Purity	≥95% (SDS-PAGE).
Specific Activity	50-100ng are required for standard HAT assay.
Formulation	Lyophilized. Contains PBS.
Long Term Storage	-20°C.
Use/Stability	Stable for at least 6 months after receipt when stored at -20°C.
Handling	After reconstitution, prepare aliquots and store at -20°C. Avoid freeze/thaw cycles.
Full Length	Full L.

GENE INFORMATION

Gene Name	TGME49_093690 profilin family protein [<i>Toxoplasma gondii</i> ME49]
Synonyms	TGME49_093690; profilin family protein
Gene ID	7900190

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mRNA Refseq	XM_002370130
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Protein Refseq	XP_002370171
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