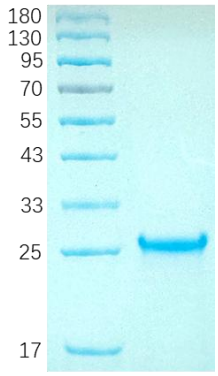
Recombinant Toxoplasma gondii Profilin (PRF) (N-His tag)

EGPS074D

Catalog Number: EGPS074D-50, EGPS074D-100
Cite ID#: EN5685092, EN5685093
Amount: 50ug, 100ug
Background: 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.
Expression system: PRF，produced in E.coli is a single non-glycosylated polypeptide chain containing 163 amino acids. A fully biologically active molecule has a molecular mass of 17.5kDa. The apparent molecular mass of the protein is approximately 25kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.
Species: Toxoplasma gondii
Source: E. coli
Amino acid sequence: MSDWDPVVKEWLVDTGYCCAGGIANAEDGVVFAAAADDDDGWSKLYKDDHEEDTIGEDGN ACGKVSINEASTIKAAVDDGSAPNGVWIGGQKYKVVRPEKGFEYNDCTFDITMCARSKGGA HLIKTPNGSIVIALYDEEKEQDKGNSRTSALAFAEYLHQSGY
Accession #: Q58NA1
Molecular Weight: 17.5kDa. The apparent molecular mass of the protein is approximately 25kDa with 6XHis tag observed by reducing SDS-PAGE.
Purity: > 90% as analyzed by SDS-PAGE. The concentration is 0.55mg/ml.
Formulation: Purified protein solution after extensive dialysis against PBS，pH 7.4.
Endotoxin: Less than 0.2 EU/μg determined by LAL test.
Storage/Stability: Samples are stable for up to twelve months from date of receipt at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

For Research Use Only



SDS-PAGE of PRF (Cat#:EGPS074D).

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