

Methionine aminopeptidase 2 is a key regulator of apoptotic like cell death in
Leishmaniadonovani

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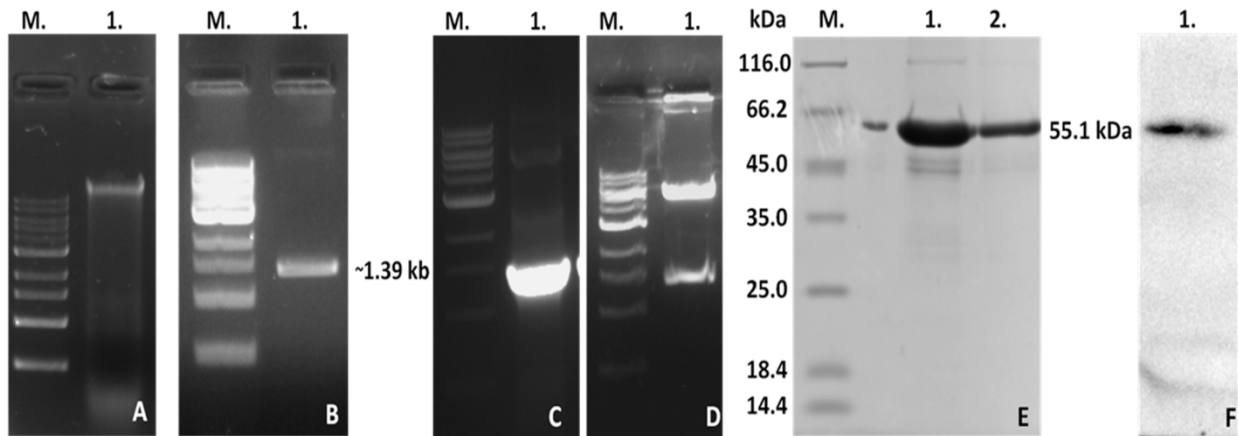


Fig. S1. Sub cloning of *LdMAP2* in expression vector pET-28a(+) and expression in BL21 (DE3) *E. coli*. (A) Genomic DNA was isolated from *Leishmania donovani*. (B) Lane M. 1 kb DNA ladder, Lane 2. PCR amplification of *LdMAP2* from genomic DNA of *L. donovani*. (C) Clone confirmation of *LdMAP2* in pET-28a(+) by PCR. Lane M: 1 kb DNA ladder, lane 1: positive clones. (D) Lane M. 1 kb DNA ladder, lane 1. pET-28a-*LdMAP2* construct digested with *EcoRI* and *XhoI*. (E) SDS-PAGE analysis of purified His-tagged r*LdMAP2*, Lane M. medium range protein marker, lane 1 and 2. *LdMAP2* after Ni-NTA affinity purification. (F) Western blot image of Purified His-tagged *LdMAP2*, mouse anti-His antibodies were used for immunodetection.

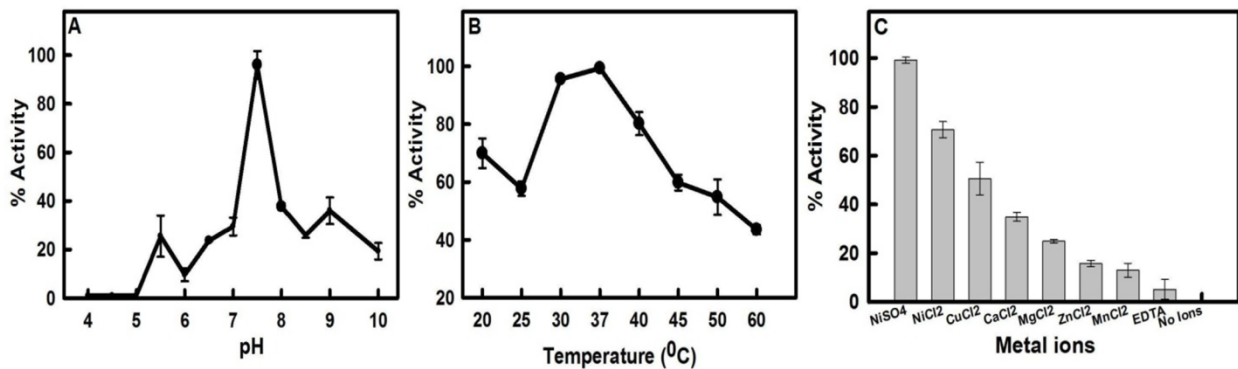


Fig. S2. pH optima, temperature optima and effect of metal ions on enzyme activity of *LdMAP2* (A) pH- profile. The pH optima studies giving a pH optimum of 7.5. (B) Optimum temperature studies. Assays were carried out in different temperature conditions ranging from 20- 60°C. *LdMAP2* has an optimum activity at 37°C. (C) Effect of metal ions on enzyme activity; maximum activity was found in presence of Ni(II) and very less activity was found in presence of EDTA. Data represents the mean $\pm$ SD of three independent experiments.