

Figure S2. Susceptibility of mTXNPx to overoxidation in promastigotes exposed to 37°C.

Leishmania infantum promastigotes grown for 4 days at either 25°C or 37°C (as in Figure 5B) were collected (1.4×10^7 cells) and lysed in the presence of 200 mM *N*-ethylmaleimide (NEM) (*left*). Alternatively, cell lysates were pre-treated with H₂O₂ (50 μ M H₂O₂ for 30 min, followed by a further addition of 50 μ M H₂O₂) prior to fixation with NEM (*right*). Extracts were examined by western blot with the anti-mTXNPx antibody. The dimer corresponds to the oxidized form of mTXNPx, whereas the monomer corresponds to either the reduced or the overoxidized protein. In cell lysates of parasites grown at 37°C the monomeric form of mTXNPx persists even upon H₂O₂ pre-treatment, indicating that this is the overoxidized (peroxidase inactive) form of the enzyme. This western blot is representative of two independent experiments. Protein loading was controlled by Ponceau staining.