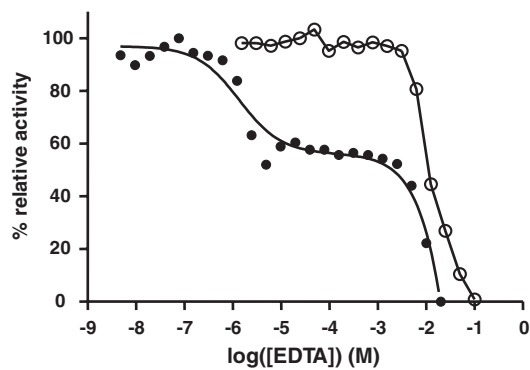


# Supporting Information

McGowan et al. 10.1073/pnas.0911813107



**Fig. S1.** Metal binding of *PflA*-M1 (Open Circle) versus *PfA*-M17 (Closed Circle) (1). Graph shows relative enzymatic activity (%) against increasing EDTA concentration (M).

1 Maric S, et al. (2009) The M17 leucine aminopeptidase of the malaria parasite *Plasmodium falciparum*: Importance of active site metal ions in the binding of substrates and inhibitors. *Biochemistry* 48(23):5435–5439







**Table S4. Comparison of inhibitor interactions with PfA-M1 (2) and PfA-M17**

Enzyme	Bestatin		Co4	
	PfA-M17	PfA-M1 (2)	PfA-M17	PfA-M1 (2)
K <sub>i</sub> (nM)	25 (4)	478.2	13 (4)	79
Metallo-bonds	11	5	12	5
H-bonds	12	7	8	5
vdw interactions	9	7	8	10
BSA (Å <sup>2</sup> )	44.2	23.8	195.1	62.2

2 McGowan S et al. (2009) Structural basis for the inhibition of the essential *Plasmodium falciparum* M1 neutral aminopeptidase. *Proc Natl Acad Sci USA* 106(8):2537–2542

4 Skinner-Adams TS et al. (2007) Identification of phosphinate dipeptide analog inhibitors directed against the *Plasmodium falciparum* M17 leucine aminopeptidase as lead antimalarial compounds. *J Med Chem* 50(24):6024–6031.