Molecular basis of PfBDP1 recognition of acetylated nucleosome core particles Karen C. Glass, PhD, University of Vermont

Preliminary Results:

Figure 1. (A) SDS-PAGE gel of purified full-length PfBDP1. (B) Analytical SEC of full-length PfBDP1 with protein standards.

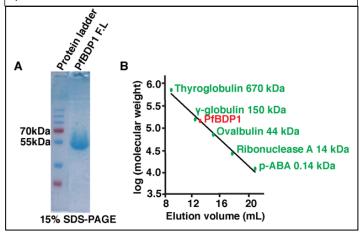


Table 1. Binding affinities of full-length PfBDP1 and PfBDP1 bromodomain (BRD) constructs with histone ligands measured by ITC.

Histone Peptide (1-24)	PfBDP1 Full length (1-488) K _D (µM)	PfBDP1-BRD (303-488) Κ _D (μM)	PfBDP1-BRD (333-456) Κ _D (μM)
Unmodified H4	No binding	No binding	No binding
H4K5acK8ac	100 ± 5.30	1510 ± 168	No binding
H4K5acK12ac	214 ± 14.8	621 ± 28.3	No binding
H4K5acK8acK12acK16ac	48.8 ± 3.63	173 ± 11.3	No binding

Figure 2. dCypher nucleosome binding assay of PfBDP1 with recombinant nucleosome core particles (NCPs) containing unmodified or acetylated H4 histones.

