Supplemental Data

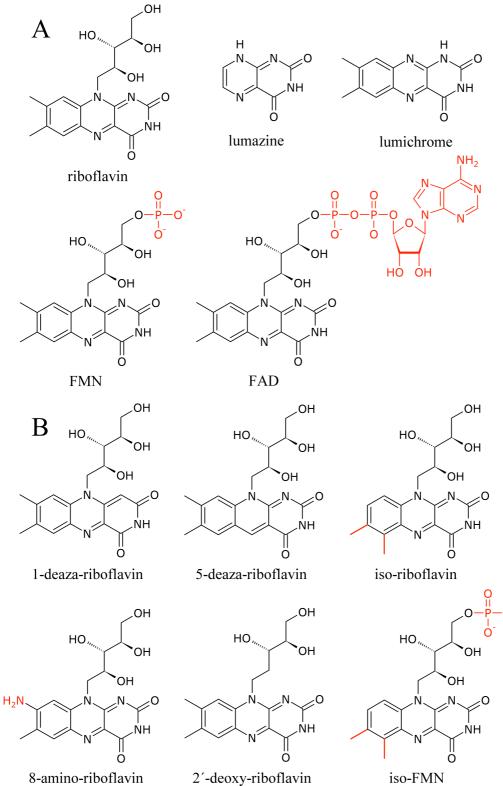
Reverse Structural Genomics: An Unusual Flavin Binding Site in a Putative Protease from *Bacteroides thetaiotaomicron*.

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Table of Contents

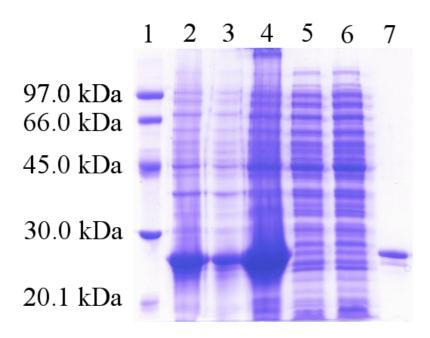
Supplementar Figure 1:
Chemical structures of naturally occurring flavins and chemically modified flavin analogs
Supplementary Figure 2:
SDS-PAGE of ppBat purification using Ni-NTA affinity chromatography
Supplementary Figure 3:
UV/vis absorbance difference titration of 1-deaza-riboflavin (41 μ M) with ppBatS4
Supplementary Figure 4:
UV/vis absorbance difference titration of 2'-deoxy-riboflavin with ppBat
Supplementary Figure 5:
ITC-determination of the dissociation constant for 2'-deoxy-riboflavin
Sumplementary Figure (
Supplementary Figure 6:
Size exclusion chromatography of ppBat and Trp164 variants

Chemical structures of naturally occurring flavins (panel A) and chemically modified flavin analogs (panel B).

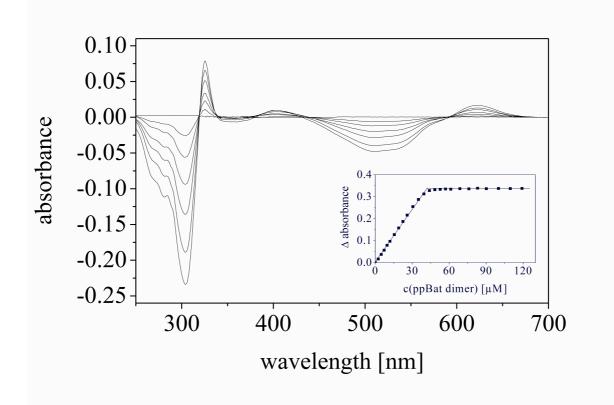


SDS-PAGE of ppBat purification using Ni-NTA affinity chromatography.

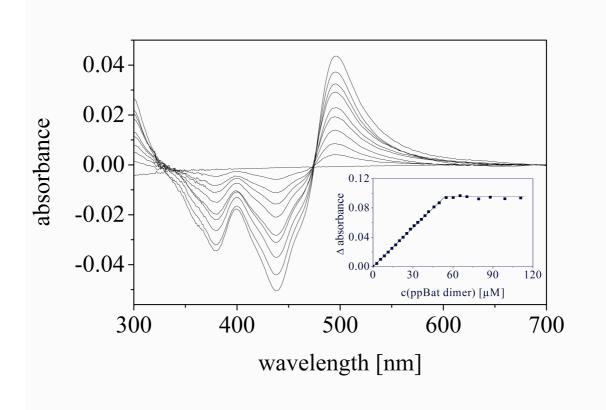
Lane 1: molecular mass standard, lane 2: crude extract, lane 3: cell pellet after sonification and centrifugation, lane 4: supernatant, lane 5: flow through, lane 6: washing fraction, lane 7: pooled ppBat.

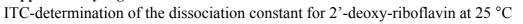


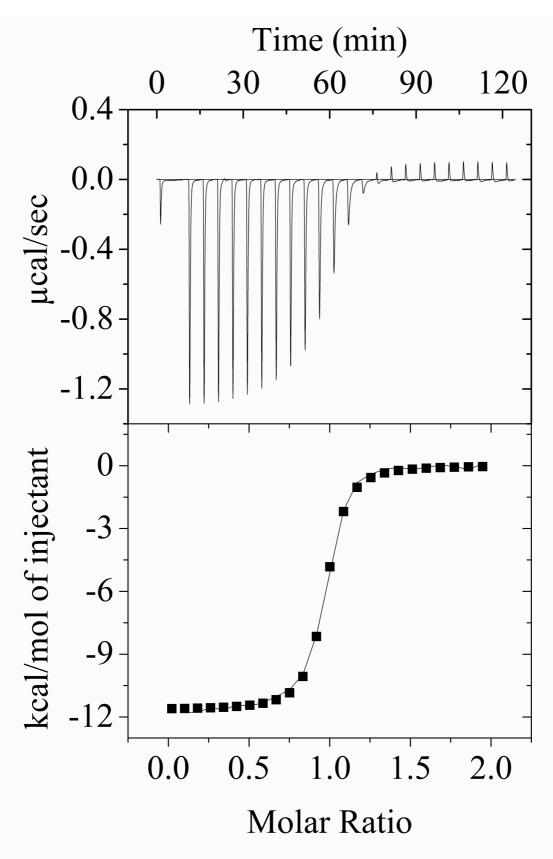
Supplementary Figure 3 UV/vis absorbance difference titration of 1-deaza-riboflavin (41 μ M) with ppBat



UV/vis absorbance difference titration of 2'-deoxy-riboflavin (55 µM) with ppBat







Size exclusion chromatography of ppBat (solid line), ppBat with bound FMN (dashed line), Trp164 Phe (dotted line) and the Trp164Ala (dashed-dotted line) variant.

