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| **Table S3.** Gibbs free energy changes for DivK binding to PleC |
| $$Formation of phosphatase-substrate complex $$ | $$∆G\_{HS}^{0}= 0 kJ/mole$$ | $$K\_{eq}= 1 $$ |
| $$ Formation of kinase-substrate complex$$ | $$∆G\_{KS}^{0}= -5.7 kJ/mole$$ | $$K\_{eq}= 10$$ |
| $$Formation of phosphatase-product complex $$ | $$∆G\_{HP}^{0}= +11.4 kJ/mole$$ | $$K\_{eq}= 0.01$$ |
| $$Formation of kinase-product complex $$ | $$∆G\_{KP}^{0}= +5.7 kJ/mole$$ | $$K\_{eq}= 0.1$$ |
| $$Ligand binding to phosphatase (relaxed form)$$ | $$∆G\_{HL}^{0}= 0 kJ/mole$$ | $$K\_{eq}= 1$$ |
| $$Ligand binding to kinase (tensed form)$$ | $$∆G\_{KL}^{0}= -14.25 kJ/mole$$ | $$K\_{eq}= 316$$ |