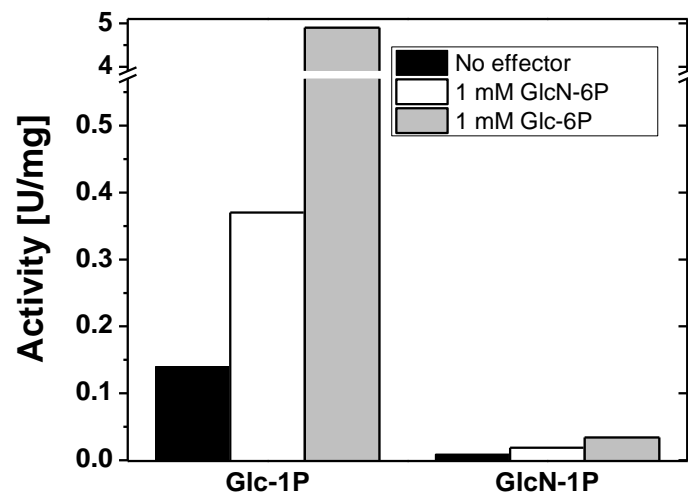
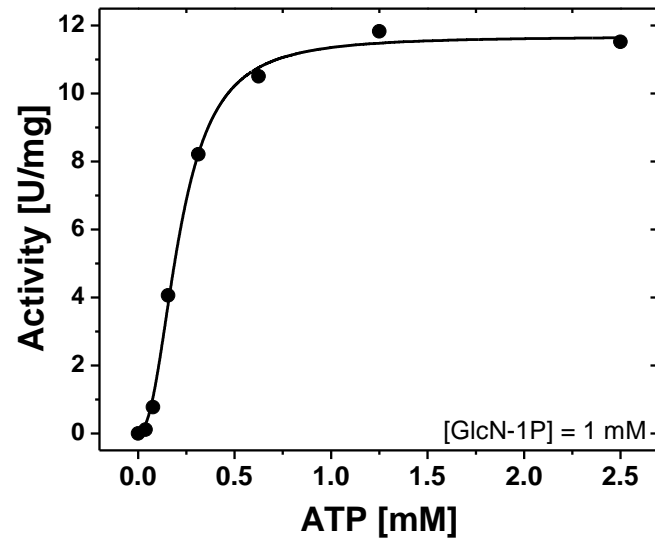


Supplementary Figure 1: Glc-6P and GlcN-6P effect over the activity of *S. coelicolor* ADP-GlcPPase. Measures were performed with 2 mM ATP and 1.5 mM of the hexose-1P, according to description in Material and Methods.



Supplementary Figure 2: ATP curve for the heterotetrameric GlgC/GlgD conformation from *G. stearothermophilus* ADP-Glc PPase. Reaction was performed in presence of 1.5 mM GlcN-1P according to descriptions stated in Material and Methods.

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Supplementary Table 1. Comparative Glc-1P and GlcN-1P catalytic efficiencies for bacterial ADP-Glc PPases analyzed in this work. Efficiency was calculated for a single catalytic subunit. Activities were measured in presence of the corresponding activator (depending on the source) and/or in absence of them. ([#]) data adapted from ¹Cereijo et al, 2020, ² Asencion Diez et al, 2012),. n.d., not determined. “Control” refers to absence of any effector.

ADP-Glc PPase source	Effector	Glc-1P efficiency k_{cat}/K_m (s ⁻¹ mM ⁻¹)	GlcN-1P efficiency k_{cat}/K_m (s ⁻¹ mM ⁻¹)	Ratio efficiencies
<i>R. fascians</i> ^{#1}	GlcN-6P 2 mM	15.2	0.23	62.08
<i>S. coelicolor</i>	Glc-6P 2 mM	30.59 ^{#1}	n.d	n.d
<i>K. rhizophila</i>	GlcN-6P 2 mM	71.38	8.82	8.09
<i>R. albus</i> GlgC	PEP 10 mM	1.88 ^{#3}	0.03	62.6
<i>R. albus</i> GlgC/GlgD		26.9 ^{#3}	0.43	62.5
<i>G. stearothermophilus</i> GlgC	Control	13.39 ^{#3}	0.36	37.19
<i>G. stearothermophilus</i> GlgC/GlgD		33.05 ^{#3}	22.46	1.47
<i>A. tumefaciens</i>	Control	201.18	1.96	102.64

	Fru-6P 1.5 mM	1641	21.37	76.79
	Pyr 1.5 mM	1261	23.76	53.09