

Supplemental material for:

Cobinamides are novel activators of the NO receptor targeting the sGC catalytic domain

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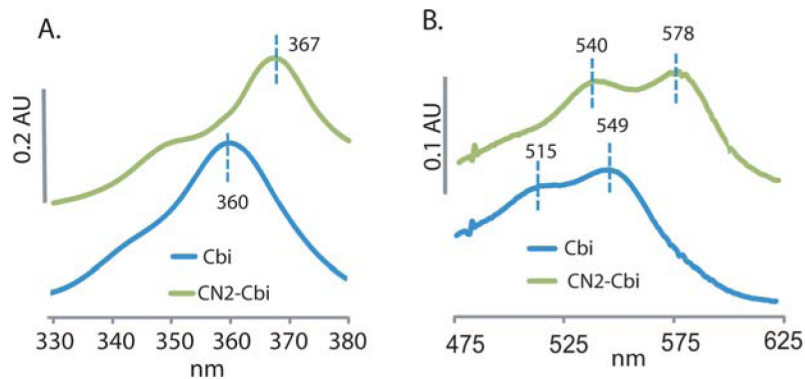


Figure S1

Supplemental Figure 1. Changes in spectra of CN2-Cbi upon conversion into Cbi in acidic conditions. Cobinamide (Cbi) was obtained by removing the cobalt-ligating cyanogroups from dicyanocobinamide (CN2-Cbi) using a treatment with low pH and nitrogen purging as described in Material and Methods. **(A)** and **(B)** are UV-Vis spectra of 4 μ M solution of CN2-Cbi (green) and Cbi (blue). Vertical lines and numbers demark the wavelength of the peaks characteristic for each compound.

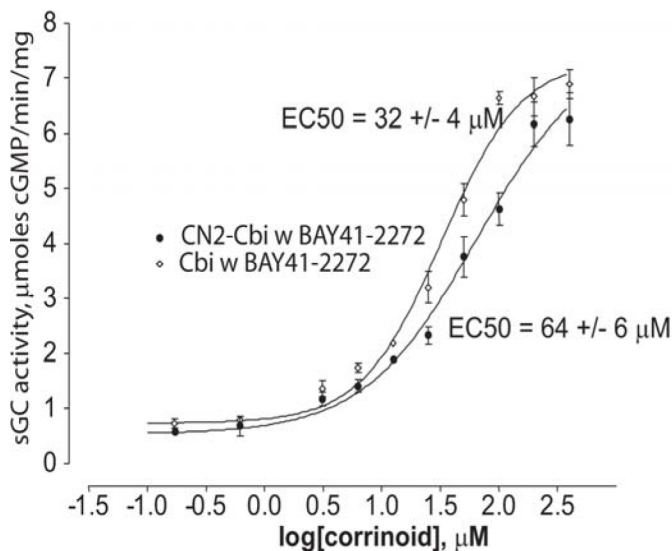


Figure S2

Supplemental Figure 2. Comparison of sGC activation by CN2-Cbi and Cbi in the presence of BAY41-2272. Concentration-response curve to CN2-Cbi (●) or Cbi (◇) in the presence of 2 μ M BAY41-2272. Cbi has a lower EC_{50} than CN2-Cbi. Data are mean \pm SD from two independent measurements performed in triplicate.