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**S3 Figure. Preparation of a cGAMP analog containing an ethylenediamine functionality.** A protected and activated ethylenediamine adenosine analog was prepared (**5**) and coupled with a protected guanosine analog (**7**) in acetonitrile, followed by oxidation to the phosphate (**8**). Protecting group manipulation, cyclisation and further oxidation provided the protected cGAMP analog (**9**). Stepwise removal of the various protecting groups then provided the desired ethylenediamine-cGAMP analog (**11**). Compound **11** proved to be a highly useful intermediate, whereby the primary alkyl amino group could be selectively reacted with various linker groups, forming a stable amide bond, followed by subsequent conjugation or binding to various proteins for antibody generation or screening.