Rachel K. King Chief Executive Officer Glycomimetics, Inc. 9708 Medical Center Drive Rockville, MD 20850

> Re: Glycomimetics Inc. Registration Statement on Form S-3 Filed May 17, 2019 File No. 333-231577

Dear Ms. King:

This is to advise you that we have not reviewed and will not review your registration statement.

Please refer to Rules 460 and 461 regarding requests for acceleration. We remind you that the company and its management are responsible for the accuracy and adequacy of their disclosures, notwithstanding any review, comments, action or absence of action by the staff.

Please contact Christine Westbrook at 202-551-5019 with any questions.

Sincerely, Division of Office of

Corporation Finance

Healthcare & Insurance cc: Brian F. Leaf, Esq.