



DIVISION OF
CORPORATION FINANCE

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549

May 23, 2019

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 Corporation Finance
Office of Healthcare & Insurance

cc: Brian F. Leaf, Esq.