



DIVISION OF
CORPORATION FINANCE

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

October 5, 2017

Rachel K. King
Chief Executive Officer
GlycoMimetics, Inc.
9708 Medical Center Drive
Rockville, Maryland 20850

**Re: GlycoMimetics, Inc.
Registration Statement on Form S-3
Filed September 28, 2017
File No. 333-220697**

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 Chris Edwards at (202) 551-6761 with any questions.

Division of Corporation Finance
Office of Healthcare & Insurance

cc: Brian F. Leaf