



October 5, 2017

VIA EDGAR

Mr. Christopher Edwards
Securities and Exchange Commission
Division of Corporation Finance
100 F Street, N.E.
Washington, DC 20549

**Re: GlycoMimetics, Inc. (the "Registrant")
Registration Statement on Form S-3, File No. 333-220697**

Acceleration Request

Requested Date: Friday, October 6, 2017

Requested Time: 4:00 p.m. Eastern Time

Dear Mr. Edwards:

In accordance with Rule 461 under the Securities Act of 1933, as amended, the undersigned registrant (the "**Registrant**") hereby requests that the Securities and Exchange Commission (the "**Commission**") take appropriate action to cause the above-referenced Registration Statement on Form S-3 (File No. 333-220697) (the "**Registration Statement**") to become effective on Friday, October 6, 2017, at 4:00 p.m. Eastern Time, or as soon thereafter as is practicable, or at such later time as the Registrant may orally request via telephone call to the staff (the "**Staff**").

Once the Registration Statement has been declared effective, please orally confirm that event with Katie Kazem of Cooley LLP, counsel to the Registrant, at (703) 456-8043, or in her absence, Mark Ballantyne at (703) 456-8084.

Very truly yours,

GLYCOMIMETICS, INC.

By: /s/ Brian M. Hahn
Brian M. Hahn
Chief Financial Officer

cc: Brent B. Siler, Cooley LLP
Brian F. Leaf, Cooley LLP
