

January 7, 2014

VIA EDGAR

Securities and Exchange Commission
Division of Corporation Finance
100 F Street, N.E.
Washington, D.C. 20549

Re: GlycoMimetics, Inc. (the "Company") – Request for Acceleration
Registration Statement on Form S-1 (File No. 333-191567)

Ladies and Gentlemen:

In accordance with Rule 461 under the Securities Act of 1933, as amended (the "Act"), and as Representatives of the several underwriters of the Company's proposed public offering of common shares, we hereby join the Company's request for acceleration of the above-referenced Registration Statement, as amended, requesting effectiveness for 4:00 p.m. Eastern Time on January 9, 2014, or as soon thereafter as is practicable.

Pursuant to Rule 460 of the Act, we wish to advise you that we have distributed approximately 1,101 copies of the Company's Preliminary Prospectus dated January 7, 2014 through the date hereof to underwriters, dealers, institutions and others.

We, the undersigned, as Representatives of the several underwriters, have complied and will continue to comply, and we have been informed by the participating underwriters that they have complied and will continue to comply, with the provisions of Rule 15c2-8 of the Securities Exchange Act of 1934, as amended.

[Signature Page Follows]

Very truly yours,

Jefferies LLC
Barclays Capital Inc.

As Representatives of the several Underwriters

By: Jefferies LLC

By: /s/ Ashley Delp

Name: Ashley Delp

Title: Managing Director

By: Barclays Capital Inc.

By: /s/ Victoria Hale

Name: Victoria Hale

Title: Vice President