

**VIA EDGAR**

September 8, 2022

United States Securities and Exchange Commission  
Division of Corporation Finance  
Office of Life Sciences  
100 F Street, N.E.  
Washington, D.C. 20549  
Attention: Jordan Nimitz

**Re: Tango Therapeutics, Inc.  
Acceleration Request for Registration Statement on Form S-3  
File No. 333-267224**

Dear Ms. Nimitz,

Pursuant to Rule 461 under the Securities Act of 1933, as amended (the “**Act**”), Tango Therapeutics, Inc. (the “**Company**”) hereby requests that the effective date of the above-referenced registration statement (the “**Registration Statement**”) be accelerated to September 12, 2022, at 4:01 p.m., Eastern Time, or as soon thereafter as practicable, unless we or our outside counsel, Goodwin Procter LLP, request by telephone that such Registration Statement be declared effective at some other time. In making this acceleration request, the Company acknowledges that it is aware of its responsibilities under the Act.

Once the Registration Statement is effective, please orally confirm the event with our counsel, Goodwin Procter LLP by calling William Collins at (617) 570-1447.

If you have any questions regarding this request, please contact William Collins of Goodwin Procter LLP at (617) 570-1447.

Sincerely,

TANGO THERAPEUTICS, INC.

/s/ Barbara Weber

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Barbara Weber  
Chief Executive Officer and President

cc: Daniella Beckman, *Tango Therapeutics, Inc.*  
Douglas Barry, *Tango Therapeutics, Inc.*  
William Collins, Esq., *Goodwin Procter LLP*