

---

## Product Data Sheet

---

Product Name: 20S Proteasome activator 1

Cat. No.: GC68503

### Chemical Properties

Cas. No. 2761578-18-9

Formula  $C_{27}H_{19}ClF_2N_2OS$

M.Wt 492.97

Solubility DMSO : 100 mg/mL (202.85 mM; Need ultrasonic) Storage Store at  $-20^{\circ}C$

General tips For obtaining a higher solubility , please warm the tube at  $37^{\circ}C$  and shake it in the ultrasonic bath for a while. Stock solution can be stored below  $-20^{\circ}C$  for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

### Background

20S Proteasome activator 1 can be used for researching neurodegenerative diseases<sup>[1]</sup>.

20S Proteasome activator 1 (compound 19) (2.5-15  $\mu M$ ; 45 min) degrades 73%  $\alpha$ -synuclein at 10  $\mu M$ , and over 80% at 15  $\mu M$ <sup>[1]</sup>.

20S Proteasome activator 1 (5-15  $\mu M$ ; 24 h) reduces 25% A53T mutant, and dose-dependently reduces enhancement of  $\alpha$ -synuclein in Hek-293T cells (transiently transfected with an A53T mutant  $\alpha$ -synuclein plasmid) at 5  $\mu M$ ; decreases 67% A53T  $\alpha$ -synuclein at 15  $\mu M$ <sup>[1]</sup>.

[1]. Staerz SD, et al. Design, Synthesis, and Biological Evaluation of Potent 20S Proteasome Activators for the Potential Treatment of  $\alpha$ -Synucleinopathies. J Med Chem. 2022 May 12;65(9):6631-6642.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA