

## Product Data Sheet

Product Name: Perforin-IN-2

Cat. No.: GC71460

### Chemical Properties

Cas. No. 1567836-70-7

Formula  $C_{24}H_{18}N_4O_5S_2$  M.Wt 506.55

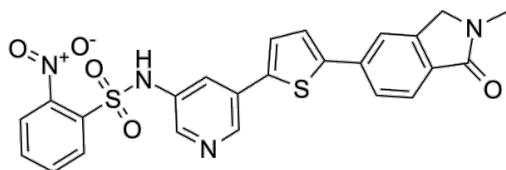
Solubility DMSO : 33.33 mg/mL (65.80 mM); ultrasonic and warming and heat to 60°C; Hygroscopic DMSO has a significant impact on the solubility of product, please use newly opened DMSO)

Storage -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°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

Perforin-IN-2 is a benzosulfonamide perforin inhibitor that alleviates transplant rejection during allogeneic bone marrow/stem cell transplantation. Perforin-IN-2 binds to plasma proteins with a binding rate of 99.8%. Perforin-IN-2 requires a higher concentration (> 900 µM) to achieve optimal

**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](mailto:tech@glpbio.com)

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

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perforin inhibition in vivo. Perforin-in-2 can effectively inhibit the lytic activity of recombinant perforin on Jurkat T (IC<sub>50</sub>=6.65  $\mu$ M) leukemia cells, and also inhibit the death of K562 leukemia target cells.

### References:

[1]. Gartlan KH, et al. Preclinical Activity and Pharmacokinetic/Pharmacodynamic Relationship for a Series of Novel Benzenesulfonamide Perforin Inhibitors. ACS Pharmacol Transl Sci. 2022 May 31;5(6):429-439.

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