
Product Data Sheet

Product Name: ZYF0033
Cat. No.: GC69239

Chemical Properties

Cas. No. 2380300-79-6

Formula $C_{26}H_{30}N_4O_2S$ M.Wt 462.61

Solubility 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 sizes: ship with RT, or blue ice upon request.

Structure

Background

ZYF0033 (HPK1-IN-22, compound ZYF0033) is a **hematopoietic progenitor kinase 1 (HPK1)** inhibitor with an **IC₅₀** less than 10 nM based on the phosphorylation inhibition of MBP protein. ZYF0033 decreases the phosphorylation of SLP76 (serine 376). ZYF0033 promotes anticancer immune responses. ZYF0033 inhibits tumor growth and caused increases intratumoral infiltration of DCs, NK cells, and $CD107a^{+}CD8^{+}$ T cells but decreased infiltration of regulatory T cells, $PD-1^{+}CD8^{+}$ T cells, $TIM-3^{+}CD8^{+}$ T cells, and $LAG3^{+}CD8^{+}$ T cells in the 4T-1 syngeneic mouse model^[1].

[1]. Jingwen Si, et al. Hematopoietic Progenitor Kinase1 (HPK1) Mediates T Cell Dysfunction and Is a Druggable Target for T Cell-Based Immunotherapies. Cancer Cell. 2020 Oct 12;38(4):551-566.e11.

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

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