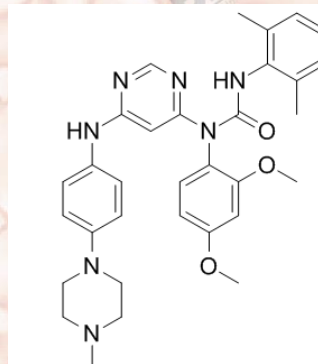


# Product Data Sheet

## HG-9-91-01

|                  |                         |
|------------------|-------------------------|
| <b>Cat. No.:</b> | B1052                   |
| <b>CAS No.:</b>  | 1456858-58-4            |
| <b>Formula:</b>  | C32H37N7O3              |
| <b>M.Wt:</b>     | 567.68                  |
| <b>Synonyms:</b> |                         |
| <b>Target:</b>   | Immunology/Inflammation |
| <b>Pathway:</b>  | SIKs                    |
| <b>Storage:</b>  | Store at -20°C          |



### Solvent & Solubility

≥56.8 mg/mL in DMSO; ≥27.3 mg/mL in EtOH; ≥6.35 mg/mL in H<sub>2</sub>O with ultrasonic

In Vitro

| Preparing Stock Solutions | Solvent              | Mass      |           |            |
|---------------------------|----------------------|-----------|-----------|------------|
|                           |                      | 1mg       | 5mg       | 10mg       |
|                           | <b>Concentration</b> |           |           |            |
|                           | <b>1 mM</b>          | 1.7616 mL | 8.8078 mL | 17.6156 mL |
|                           | <b>5 mM</b>          | 0.3523 mL | 1.7616 mL | 3.5231 mL  |
|                           | <b>10 mM</b>         | 0.1762 mL | 0.8808 mL | 1.7616 mL  |

Please refer to the solubility information to select the appropriate solvent.

### Biological Activity

Shortsummary

Pan-SIK (salt-inducible kinases) inhibitor

IC<sub>50</sub> & Target

#### Cell Viability Assay

In Vitro

|                      |  |
|----------------------|--|
| Cell Line:           | Macrophages  |
| Preparation method:  | Limited solubility. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months. |
| Reacting conditions: | 1 h  |

|         |                          |   |
|---------|--------------------------|---|
|         | Applications:            | HG-9-91-01 increases LPS-stimulated IL-10 production and markedly inhibits proinflammatory cytokine secretion even when WT SIK2 is expressed to the same level. In addition, CRT3 is required for HG-9-91-01 to enhance IL-10 production in LPS-stimulated primary mouse macrophages. |
| In Vivo | <b>Animal experiment</b> |   |
|         | Applications:            |   |

## Product Citations

1. Wang Z, Ma J, Met al. "Quantitative phosphoproteomic analysis of the molecular substrates of sleep need." Nature. 2018 Jun;558(7710):435-439.PMID:29899451
2. Abend A, Shkedi O, et al. "Salt-inducible kinase induces cytoplasmic histone deacetylase 4 to promote vascular calcification." EMBO Rep.2017 Jul;18(7):1166-1185.PMID:28588072

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## References

1. Clark K, MacKenzie KF, Petkevicius K et al. Phosphorylation of CRT3 by the salt-inducible kinases controls the interconversion of classically activated and regulatory macrophages. Proc Natl Acad Sci U S A. 2012 Oct 16;109(42):16986-91.

## Caution

**FOR RESEARCH PURPOSES ONLY.**

**NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

*Specific storage and handling information for each product is indicated on the product datasheet. Most APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.*

**APEX BIO Technology**

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