# Product data sheet

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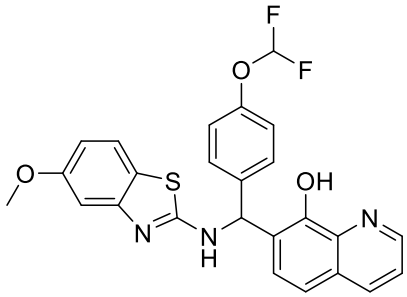
|---|---|
| MedKoo Cat#: 525443<br>Name: KIN1408<br>CAS: 1903800-11-2<br>Chemical Formula: $C_{25}H_{19}F_2N_3O_3S$<br>Exact Mass: 479.1115<br>Molecular Weight: 479.5018 |  |
| Product supplied as: | Powder |
| Purity (by HPLC): | ≥ 98% |
| Shipping conditions | Ambient temperature |
| Storage conditions: | Powder: -20°C 3 years; 4°C 2 years. |
| | In solvent: -80°C 3 months; -20°C 2 weeks. |

**1. Product description:**
KIN1408 is an inducer of cellular transcription of innate immune genes in a MAVS- and IRF3-dependent manner, exhibiting broad-spectrum anti-viral activity.

**2. CoA, QC data, SDS, and handling instruction**
SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under "QC And Documents" section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

**3. Solubility data**

| Solvent | Max Conc. mg/mL | Max Conc. mM |
|---|---|---|
| DMSO | 34.5 | 71.95 |

**4. Stock solution preparation table:**

| Concentration / Solvent Volume / Mass | 1 mg | 5 mg | 10 mg |
|---|---|---|---|
| 1 mM | 2.09 mL | 10.43 mL | 20.86 mL |
| 5 mM | 0.42 mL | 2.09 mL | 4.17 mL |
| 10 mM | 0.21 mL | 1.04 mL | 2.09 mL |
| 50 mM | 0.04 mL | 0.21 mL | 0.42 mL |

**5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator**
Please refer the product web page under section of "Calculator"

**6. Recommended literature which reported protocols for in vitro and in vivo study**
In vitro study

1. Pattabhi S, Wilkins CR, Dong R, Knoll ML, Posakony J, Kaiser S, Mire CE, Wang ML, Ireton RC, Geisbert TW, Bedard KM, Iadonato SP, Loo YM, Gale M Jr. Targeting Innate Immunity for Antiviral Therapy through Small Molecule Agonists of the RLR Pathway. J Virol. 2015 Dec 16;90(5):2372-87. doi: 10.1128/JVI.02202-15. PMID: 26676770; PMCID: PMC4810700.

In vivo study

TBD

**7. Bioactivity**
Biological target:

KIN1408 is an agonist of the RIG-1-like receptor (RLR) pathway and exhibits a broad-spectrum antiviral activity.

In vitro activity

Treatment of cells with 5 μM KIN1408 was sufficient to cause a 1.5-log-unit decrease in the number of infectious virus particles compared to that achieved with treatment with DMSO at 96 h postinfection (Fig. 7C).

Reference: J Virol. 2015 Dec 16;90(5):2372-87. https://pubmed.ncbi.nlm.nih.gov/26676770/

# Product data sheet

In vivo activity

TBD

*Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.*