

BAL-0028

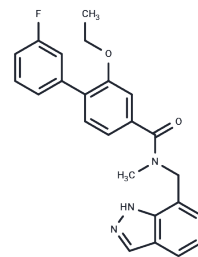
Chemical Properties

CAS No. : 2842012-69-3

Formula: C₂₄H₂₂FN₃O₂

Molecular Weight: 403.45

Storage: Keep away from moisture, Store at low temperature
 Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

| | |
|----------------------------|--|
| Description | BAL-0028 is a potent inhibitor of NLRP3 activation (IC ₅₀ : 25 nM) with anti-inflammatory activity for cancer research. |
| Targets(IC ₅₀) | NOD-like Receptor (NLR), NOD, Interleukin |
| In vitro | A series of novel high-affinity, reversible inhibitors of NLRP3 activation were discovered by screening a DNA-encoded library, and a potent lead compound, BAL-0028, was identified directly from the screen with an IC ₅₀ value of 25 nM; SPR studies showed that BAL-0028 binds tightly to the NACHT domain of NLRP3 (K _D range of 104-123 nM); CADD analysis of the interaction of BAL-0028 with the NLRP3 NACHT domain showed that the binding site is distinct from that of ADP and MCC950 and includes site-specific interactions. [1] |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.4786 mL | 12.3931 mL | 24.7862 mL |
| 5 mM | 0.4957 mL | 2.4786 mL | 4.9572 mL |
| 10 mM | 0.2479 mL | 1.2393 mL | 2.4786 mL |
| 50 mM | 0.0496 mL | 0.2479 mL | 0.4957 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Hartman G, et al. The discovery of novel and potent indazole NLRP3 inhibitors enabled by DNA-encoded library screening. *Bioorg Med Chem Lett.* 2024 Apr 1;102:129675.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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