

Product Name: ZAP 180013

Catalog No.: 6821

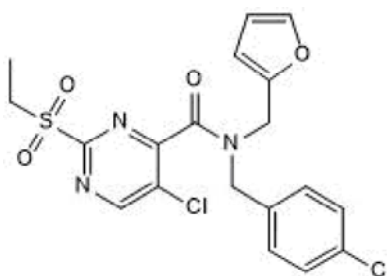
Batch No.: 1

CAS Number: 873080-25-2

IUPAC Name: 5-Chloro-*N*-[(4-chlorophenyl)methyl]-2-(ethylsulfonyl)-*N*-(2-furanylmethyl)-4-pyrimidinecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₁₇Cl₂N₃O₄S
Batch Molecular Weight: 454.32
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 50.23 | 3.77 | 9.25 |
| Found | 50.13 | 3.82 | 9.22 |

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Zeta-chain-associated protein kinase 70 (Zap70) inhibitor (IC₅₀ = 1.8 μM in fluorescence polarization assay). Inhibits the interaction of Zap70 SH2 domain with immunoreceptor tyrosine-based activation motif (ITAMs), within the T-cell antigen receptor (TCR) signaling pathway.

Physical and Chemical Properties:

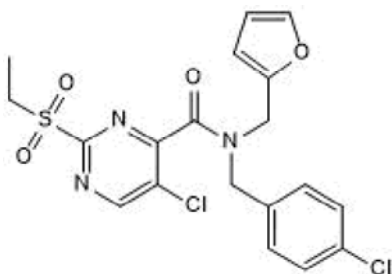
Batch Molecular Formula: C₁₉H₁₇Cl₂N₃O₄S

Batch Molecular Weight: 454.32

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Visperas et al (2017) Identification of inhibitors of the association of ZAP-70 with the T-cell receptor by high-throughput screen. *SLAS: Discov.* **22** 324. PMID: 27932698.

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