

Certificate of Analysis

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Product Name: DMB

Catalog No.: 8874

Batch No.: 1

CAS Number: 281209-71-0

IUPAC Name: 6,7-Dichloro-*N*-(1,1-dimethylethyl)-3-(methylsulfonyl)-2-quinoxalinamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃H₁₅Cl₂N₃O₂S

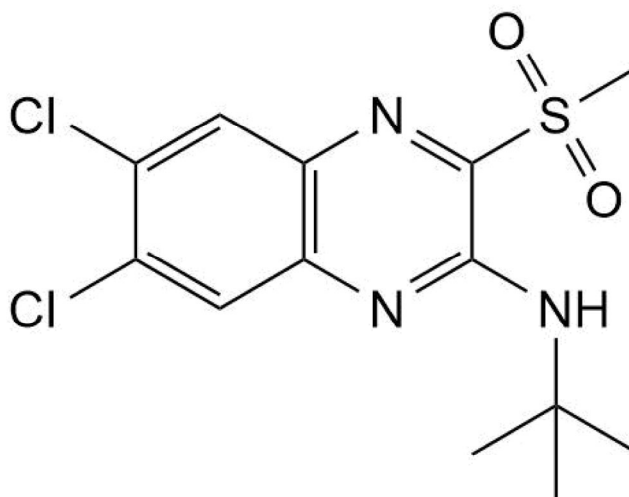
Batch Molecular Weight: 348.25

Physical Appearance: Yellow solid

Solubility: DMSO to 50 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.8% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	44.84	4.34	12.07
Found	45.21	4.29	11.88

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

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CAS Number: 281209-71-0

IUPAC Name: 6,7-Dichloro-N-(1,1-dimethylethyl)-3-(methylsulfonyl)-2-quinoxalinamine

Description:

DMB is a Gasdermin D (GSDMD) agonist ($EC_{50} = 0.7$ mM). DMB directly bound to GSDMD ($K_D = 1.1$ mM). DMB activates GSDMD pore formation and pyroptosis without cleaving GSDMD. In vivo, DMB suppresses tumor growth without harming GSDMD-expressing immune cells in mouse tumor models. DMB is also an agonist of glucagon-like peptide 1 receptor. DMB is orally bioavailable.

Physical and Chemical Properties:

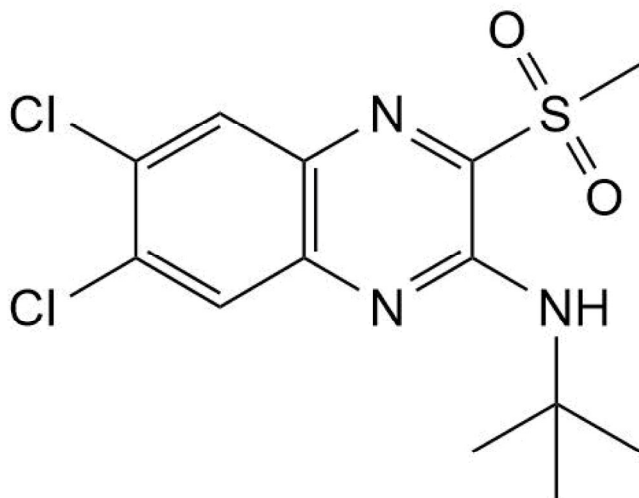
Batch Molecular Formula: $C_{13}H_{15}Cl_2N_3O_2S$

Batch Molecular Weight: 348.25

Physical Appearance: Yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 50 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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Fontana (2024) Small-molecule GSDMD agonism in tumors stimulates antitumor immunity without toxicity. *Cell* **187** 6165. PMID: 39243763.

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