

Product Name: NBC 6

Catalog No.: 6925

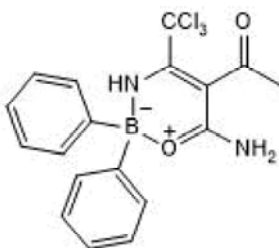
Batch No.: 1

CAS Number: 2068818-02-8

IUPAC Name: (T4)-[2-Acetyl-4,4,4-trichloro-3-(imino-κN)butanamidito-κO]diphenylboron

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₆BCl₃N₂O₂
Batch Molecular Weight: 409.5
Physical Appearance: Pale yellow solid
Solubility: DMSO to 100 mM
ethanol to 5 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	52.79	3.94	6.84
Found	52.76	3.96	6.64

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

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IUPAC Name: (T4)-[2-Acetyl-4,4,4-trichloro-3-(imino-κN)butanamidito-κO]diphenylboron

Description:

NLRP3 inflammasome inhibitor (IC₅₀ = 574 nM). Inhibits nigericin-induced inflammasome activation in THP-1 cells and Imiquimod (Cat. No. 3700) induced IL-1β release from LPS-primed bone marrow-derived macrophages (BMDMs).

Physical and Chemical Properties:

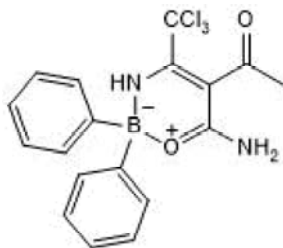
Batch Molecular Formula: C₁₈H₁₆BCl₃N₂O₂

Batch Molecular Weight: 409.5

Physical Appearance: Pale 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 100 mM

ethanol to 5 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.

Licensing Information:

Sold under license from the University of Manchester.

References:

Baldwin et al (2017) Boron-based inhibitors of the NLRP3 inflammasome. *Cell Chem.Biol.* **24** 1321. PMID: 28943355.

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