

Product Name: NBC 19

Catalog No.: 6722

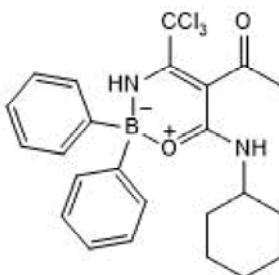
Batch No.: 1

CAS Number: 2068818-75-5

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₂₆BCl₃N₂O₂
Batch Molecular Weight: 491.64
Physical Appearance: Light yellow solid
Solubility: DMSO to 100 mM
ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.63	5.33	5.7
Found	58.47	5.3	5.4

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-N-cyclohexyl-3-(imino-κN)butanamidato-κO]diphenylboron

Description:

Potent NLRP3 inflammasome inhibitor (IC₅₀ = 60-80 nM).
Inhibits nigericin- and ATP-induced IL-1β release.

Physical and Chemical Properties:

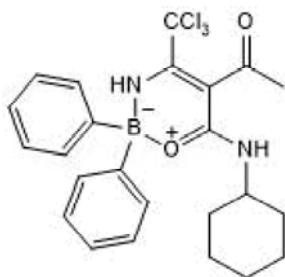
Batch Molecular Formula: C₂₄H₂₆BCl₃N₂O₂

Batch Molecular Weight: 491.64

Physical Appearance: Light 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 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.

Licensing Information:

Sold under license from the University of Manchester.

References:

Redondo-Castro et al (2018) Development of a characterised tool kit for the interrogation of NLRP3 inflammasome-dependent responses. *Sci.Rep.* **8** 5667. PMID: 29618797.

Baldwin et al (2017) Boron-Based Inhibitors of the NLRP3 Inflammasome. *Cell Chem.Biol.* **24** 1321. PMID: 28943355.

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