

Certificate of Analysis

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Product Name: 1,2,3,4,5,6-Hexabromocyclohexane

Catalog No.: 2291

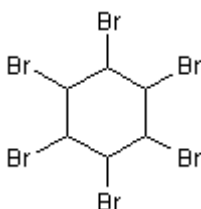
Batch No.: 2

CAS Number: 1837-91-8

IUPAC Name: 1,2,3,4,5,6-Hexabromocyclohexane

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₆H₆Br₆
Batch Molecular Weight: 557.54
Physical Appearance: White solid
Solubility: DMSO to 10 mM with gentle warming
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.73 (Ethyl acetate:Petroleum ether [1:6])
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen	Bromine
Theoretical	12.93	1.08	0	85.99
Found	12.92	1.04	0.1	85.88

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

Product Information

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Description:

Potently and directly inhibits JAK2 tyrosine kinase autophosphorylation, specifically inhibiting ligand-dependent JAK2 activation. A 16-hour treatment with 1 μ M of compound reduces JAK2 tyrosine autophosphorylation levels to ~ 50% while 50 μ M eliminates nearly all JAK2 activity. Non-cytotoxic at 100 μ M.

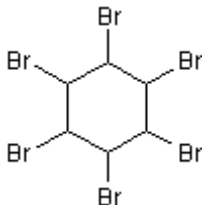
Physical and Chemical Properties:

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Storage: Store at RT

Solubility & Usage Info:

DMSO to 10 mM with gentle warming

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:

Sandberg *et al* (2005) Identification of 1,2,3,4,5,6-Hexabromocyclohexane as a small molecule inhibitor of Jak2 tyrosine kinase autophosphorylation. *J.Med.Chem.* **48** 2526. PMID: 15801842.

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