

Certificate of Analysis

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Product Name: Furanone C-30

Catalog No.: 6546

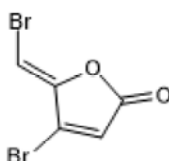
Batch No.: 1

CAS Number: 247167-54-0

IUPAC Name: (5Z)-4-Bromo-5-(bromomethylene)-2(5H)-furanone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₅H₂Br₂O₂
Batch Molecular Weight: 253.88
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

GC: Shows 99.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	23.65	0.79	
Found	23.78	0.73	

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

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CAS Number: 247167-54-0

IUPAC Name: (5Z)-4-Bromo-5-(bromomethylene)-2(5H)-furanone

Description:

Synthetic furanone bacterial quorum sensing inhibitor. Inhibits virulence factor expression in *Pseudomonas aeruginosa* and increases bacterial susceptibility to antibiotics in vitro. Also inhibits bacterial quorum sensing in vivo and promotes bacterial clearance in a mouse pulmonary infection model.

Physical and Chemical Properties:

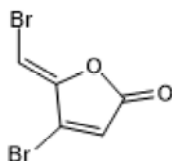
Batch Molecular Formula: C₅H₂Br₂O₂

Batch Molecular Weight: 253.88

Physical Appearance: White 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

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:

Hentzer *et al* (2003) Attenuation of *Pseudomonas aeruginosa* virulence by quorum sensing inhibitors. EMBO J. **22** 3803. PMID: 12881415.

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