

Certificate of Analysis

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Product Name: 4μ8C

Catalog No.: 4479

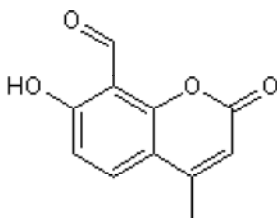
Batch No.: 1

CAS Number: 14003-96-4

IUPAC Name: 7-Hydroxy-4-methyl-2-oxo-2H-1-benzopyran-8-carboxaldehyde

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₁H₈O₄·0.125H₂O
Batch Molecular Weight: 206.43
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
ethanol to 10 mM with gentle warming
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

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

	Carbon	Hydrogen	Nitrogen
Theoretical	64.71	3.95	
Found	64.42	4.07	

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

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Batch No.: 1

CAS Number: 14003-96-4

IUPAC Name: 7-Hydroxy-4-methyl-2-oxo-2H-1-benzopyran-8-carboxaldehyde

Description:

Selective inhibitor of IRE1α ribonuclease (RNase) activity (IC₅₀ = 60 nM). Blocks substrate access to the active site of IRE1α. Inactivates IRE1α-mediated mRNA degradation. Displays no effect on the IRE1α-related endoribonuclease RNase L.

Physical and Chemical Properties:

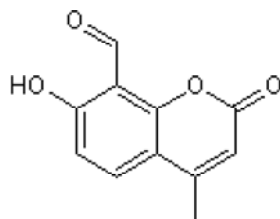
Batch Molecular Formula: C₁₁H₈O₄.0.125H₂O

Batch Molecular Weight: 206.43

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol 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:

Cross et al (2012) The molecular basis for selective inhibition of unconventional mRNA splicing by an IRE1-binding small molecule. *Proc.Natl.Acad.Sci.USA* **109** E869. PMID: 22315414.

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