

Certificate of Analysis

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Product Name: Linomide

Catalog No.: 1461

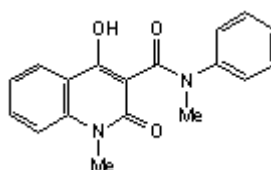
Batch No.: 1

CAS Number: 84088-42-6

IUPAC Name: 1,2-Dihydro-4-hydroxy-*N,N*-dimethyl-2-oxo-*N*-phenyl-3-quinolinecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₆N₂O₃
Batch Molecular Weight: 308.33
Physical Appearance: White solid
Solubility: 1.1eq. NaOH to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.45 (Chloroform:Methanol [9:1])
Melting Point: Between 210 - 213°C
HPLC: Shows 100% purity
¹H NMR: Consistent with structure
¹³C NMR: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	70.12	5.23	9.09
Found	70	5.24	9.11

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

Product Information

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Description:

Immunomodulator with stimulatory and antitumor properties. Inhibits *in vivo* apoptosis of T cells and inhibits angiogenesis in rats *in vivo*.

Physical and Chemical Properties:

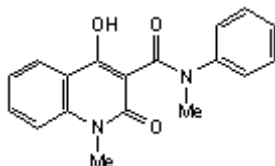
Batch Molecular Formula: C₁₈H₁₆N₂O₃

Batch Molecular Weight: 308.33

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

1.1eq. NaOH 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:

Ichikawa *et al* (1992) The antitumor effects of the quinoline-3-carboxamide linomide on Dunning R-3327 rat prostatic cancers. *Cancer Res.* **52** 3022. PMID: 1591718.

Vukanovic *et al* (1993) Antiangiogenic effects of the quinoline-3-carboxamide linomide. *Cancer Res.* **53** 1833. PMID: 7682157.

Gonzalo *et al* (1994) Linomide inhibits programmed cell death of peripheral T cells *in vivo*. *Eur.J.Immunol.* **24** 48. PMID: 8020570.

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