

Certificate of Analysis

Product Name: NPC 15199

Catalog No.: 0675

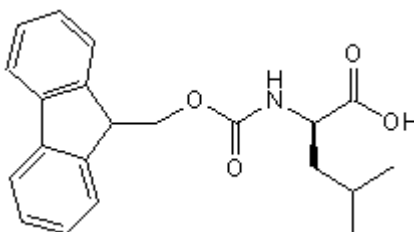
Batch No.: 1

CAS Number: 35661-60-0

IUPAC Name: *N*-(9-Fluorenylmethoxycarbonyl)-L-leucine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₃NO₄
Batch Molecular Weight: 353.42
Physical Appearance: White solid
Solubility: DMSO to 100 mM with gentle warming
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.23 (Dichloromethane:Methanol:Ammonia soln. [9:1:0.1])
Melting Point: Between 163 - 165°C
HPLC: Shows >99.4% purity
¹H NMR: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	71.37	6.56	3.96
Found	71.51	6.58	3.95

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

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IUPAC Name: *N*-(9-Fluorenylmethoxycarbonyl)-L-leucine

Description:

Anti-inflammatory agent; increases intracellular Ca²⁺ levels.

Physical and Chemical Properties:

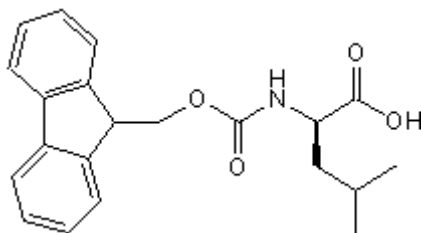
Batch Molecular Formula: C₂₁H₂₃NO₄

Batch Molecular Weight: 353.42

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 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:

Burch et al (1991) *N*-(Fluorenyl-9-methoxycarbonyl) amino acids, a class of anti-inflammatory agents with a different mechanism of action. *Proc.Natl.Acad.Sci.U.S.A.* **88** 355. PMID: 1824872.

Miller et al (1993) Guinea pig ileitis is attenuated by the leumidin *N*-(fluorenyl-9-methoxycarbonyl)leucine (NPC 15199). *J.Pharmacol.Exp.Ther.* **266** 468. PMID: 8392562.

Jan et al (2000) NPC-15199, a novel anti-inflammatory agent, mobilizes intracellular Ca²⁺ in bladder female transitional carcinoma (BFTC) cells. *Chin.J.Physiol.* **43** 29. PMID: 10857466.

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