

Product Name: Kartogenin

Catalog No.: 4513

Batch No.: 1

CAS Number: 4727-31-5

IUPAC Name: 2-[[[(1,1'-Biphenyl)-4-ylamino]carbonyl]benzoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₁₅NO₃·¼H₂O

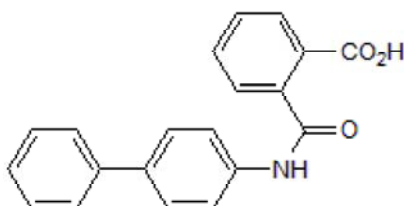
Batch Molecular Weight: 321.84

Physical Appearance: Off-white solid

Solubility: DMSO to 100 mM
ethanol to 50 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.2 (Ethyl acetate:Petroleum ether [3:2])

HPLC: Shows 98.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	74.64	4.85	4.35
Found	74.98	4.68	4.43

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

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Description:

Kartogenin potently induces differentiation of human mesenchymal stem cells into chondrocytes (EC₅₀ = 100 nM). Reduces disease severity in a mouse model of osteoarthritis; displays protective effects against osteoarthritic stimuli in mature chondrocytes in vitro.

Physical and Chemical Properties:

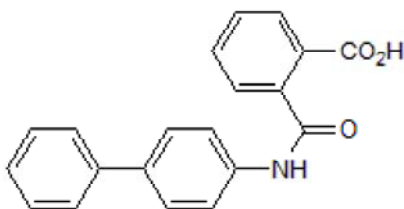
Batch Molecular Formula: C₂₀H₁₅NO₃·¼H₂O

Batch Molecular Weight: 321.84

Physical Appearance: Off-white solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Johnson et al (2012) A stem cell-based approach to cartilage repair. *Science* **336** 717. PMID: 22491093.

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 50 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.

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