

Product Name: NBI 31772

Catalog No.: 5192

Batch No.: 2

CAS Number: 374620-70-9

IUPAC Name: 1-(3,4-Dihydroxybenzoyl)-6,7-dihydroxy-3-isoquinolinecarboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₁NO₇·1¼H₂O

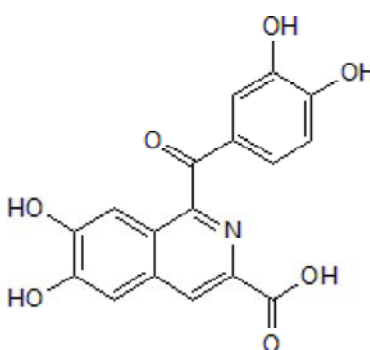
Batch Molecular Weight: 372.79

Physical Appearance: Yellow solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.6% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	54.77	3.92	3.76
Found	54.9	3.92	3.75

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

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CAS Number: 374620-70-9

IUPAC Name: 1-(3,4-Dihydroxybenzoyl)-6,7-dihydroxy-3-isoquinolinecarboxylic acid

Description:

High affinity insulin-like growth factor-1 binding protein (IGFBP) inhibitor (K_i values are 1 - 24 nM for all six human subtypes). Displaces insulin-like growth factor-1 (IGF-1) from the IGF-1:IGFBP complex and suppresses IGF1-induced proliferation of 3T3 fibroblasts. Also increases cardiomyocyte proliferation in vivo.

Physical and Chemical Properties:

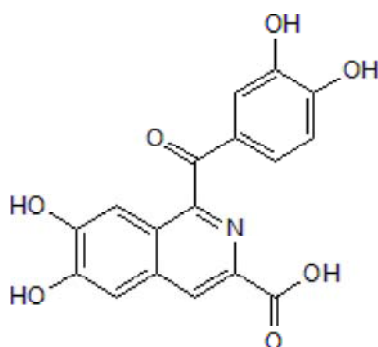
Batch Molecular Formula: $C_{17}H_{11}NO_7 \cdot 1\frac{3}{4}H_2O$

Batch Molecular Weight: 372.79

Physical Appearance: Yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Choi et al (2013) *In vivo* monitoring of cardiomyocyte proliferation to identify chemical modifiers of heart regeneration. *Development*. **140** 660. PMID: 23293297.

Chen et al (2001) Discovery of a series of nonpeptide small molecules that inhibit the binding of Ins-like growth factor (IGF) to IGF-binding proteins. *J.Med.Chem.* **44** 4001. PMID: 11689087.

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.

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