

Certificate of Analysis

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Product Name: IQ 1

Catalog No.: 4713

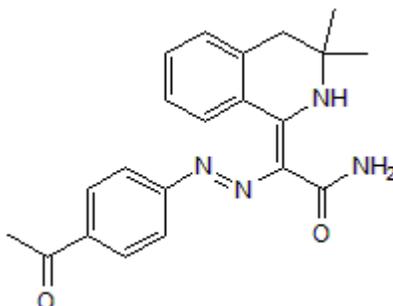
Batch No.: 1

CAS Number: 331001-62-8

IUPAC Name: 2-[2-(4-Acetylphenyl)diazenyl]-2-(3,4-dihydro-3,3-dimethyl-1(2*H*)-isoquinolinylidene)acetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₂N₄O₂
Batch Molecular Weight: 362.42
Physical Appearance: Orange solid
Solubility: DMSO to 100 mM
 ethanol to 20 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	69.59	6.12	15.46
Found	69.43	6.13	15.53

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

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IUPAC Name: 2-[2-(4-Acetylphenyl)diazenyl]-2-(3,4-dihydro-3,3-dimethyl-1(2H)-isoquinolinylidene)acetamide

Description:

Maintains embryonic stem cell (ESC) pluripotency in Wnt3a-treated cells; enables Wnt/ β -catenin-driven expansion of mouse ESCs and prevents spontaneous differentiation. Upregulates expression of Oct4 and Sox2 transcription factors. Binds to serine/threonine phosphatase PP2A and prevents PP2A/Nkd interaction.

Physical and Chemical Properties:

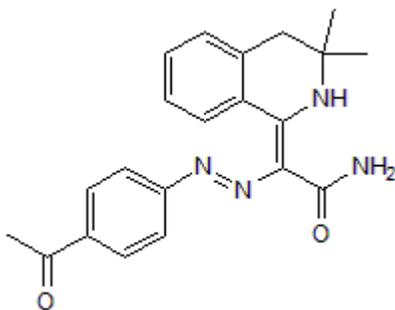
Batch Molecular Formula: C₂₁H₂₂N₄O₂

Batch Molecular Weight: 362.42

Physical Appearance: Orange solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Miyabayashi et al (2007) Wnt/beta-catenin/CBP signaling maintains long-term murine embryonic stem cell pluripotency. Proc.Natl.Acad.Sci.U S A **104** 5668. PMID: 17372190.

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

ethanol to 20 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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