

Product Name: GSA 10

Catalog No.: 4918

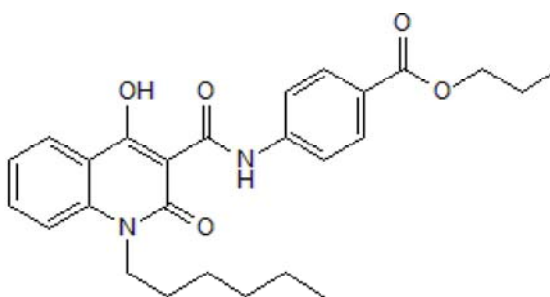
Batch No.: 1

CAS Number: 300833-95-8

IUPAC Name: 4-[[[(1-Hexyl-1,2-dihydro-2-oxo-3-quinolinyl)carbonyl]amino]benzoic acid propyl ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₃₀N₂O₅·½H₂O
Batch Molecular Weight: 459.54
Physical Appearance: White solid
Solubility: DMSO to 5 mM with gentle warming
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	67.96	6.8	6.1
Found	67.85	6.62	6.32

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

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Description:

Smoothened (Smo) receptor agonist (EC₅₀ = 1.2 μM). Does not recognize the classic cyclopamine (Cat. No. 1623) binding site. Does not promote Smo translocation to the primary cilium; is strongly potentiated by forskolin and cholera toxin. Displays anti-adipogenic effects in vitro, mediated by a non-canonical Hedgehog signaling pathway. Promotes differentiation of multipotent mesenchymal progenitor cells into osteoblasts.

Physical and Chemical Properties:

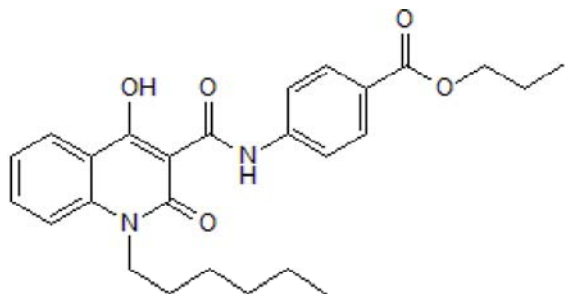
Batch Molecular Formula: C₂₆H₃₀N₂O₅·½H₂O

Batch Molecular Weight: 459.54

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 5 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:

Fleury et al (2016) Hedgehog associated to microparticles inhibits adipocyte differentiation via a non-canonical pathway. *Sci.Rep.* **24** 23479. PMID: 27010359.

Gorojankina et al (2013) Discovery, molecular and pharmacological characterization of GSA-10, a novel small-molecule positive modulator of Smoothened. *Mol.Pharmacol.* **83** 1020. PMID: 23448715.

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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956