

Product Name: ZQ 16

Catalog No.: 6001

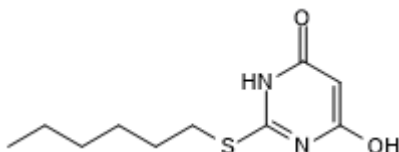
Batch No.: 1

CAS Number: 376616-73-8

IUPAC Name: 2-(Hexylthio)-6-hydroxy-4(3H)-pyrimidinone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₁₆N₂O₂S
Batch Molecular Weight: 228.31
Physical Appearance: White solid
Solubility: DMSO to 50 mM
 ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	52.61	7.06	12.26
Found	52.62	7.36	12.1

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

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IUPAC Name: 2-(Hexylthio)-6-hydroxy-4(3H)-pyrimidinone

Description:

Selective medium-chain free fatty acid receptor GPR84 agonist ($EC_{50} = 139$ nM). Exhibits no response at GPR40, GPR41, GPR119 or GPR120 at 100 μ M. Activates calcium mobilization, inhibits cAMP accumulation, and induces ERK1/2 phosphorylation, receptor desensitization and internalization in vitro.

Physical and Chemical Properties:

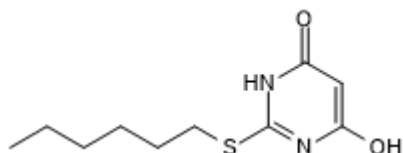
Batch Molecular Formula: $C_{10}H_{16}N_2O_2S$

Batch Molecular Weight: 228.31

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Liu et al (2016) Design and synthesis of 2-alkylpyrimidine-4,6-diol and 6-alkylpyridine-2,4-diol as potent GPR84 agonists. ACS Med.Chem.Lett. **7** 579. PMID: 27326330.

Zhang et al (2016) Discovery and characterization of a novel small-molecule agonist for medium-chain free fatty acid receptor G protein-coupled receptor 84. J.Pharmacol.Exp.Ther. **357** 337. PMID: 26962172 .

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 50 mM
ethanol 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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