

**Product Name:** GPI 688

**Catalog No.:** 3967

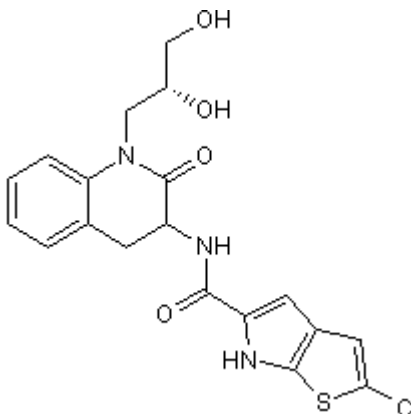
**Batch No.:** 1

CAS Number: 918902-32-6

IUPAC Name: 2-Chloro-N-[1-[(2*R*)-2,3-dihydroxypropyl]-1,2,3,4-tetrahydro-2-oxo-3-quinolinyl]-6*H*-thieno[2,3-*b*]pyrrole-5-carboxamide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>19</sub>H<sub>18</sub>ClN<sub>3</sub>O<sub>4</sub>S  
**Batch Molecular Weight:** 419.88  
**Physical Appearance:** Beige solid  
**Solubility:** DMSO to 100 mM  
ethanol to 25 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.5 (Chloroform:Methanol [9:1])  
**HPLC:** Shows 99.3% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	54.35	4.32	10.01
Found	54.15	4.3	9.88

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**Description:**

Allosteric glycogen phosphorylase inhibitor; acts at the indole site of glycogen phosphorylase. Inhibits glucagon-mediated hyperglycemia *in vivo* in the rat.

**Physical and Chemical Properties:**

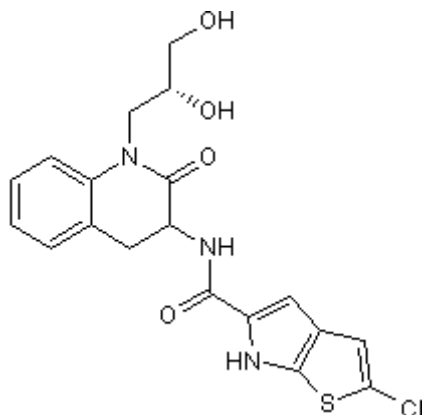
Batch Molecular Formula: C<sub>19</sub>H<sub>18</sub>ClN<sub>3</sub>O<sub>4</sub>S

Batch Molecular Weight: 419.88

Physical Appearance: Beige solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**References:**

**Freeman *et al*** (2006) Sensitivity of glycogen phosphorylase isoforms to indole site inhibitors is markedly dependent on the activation state of the enzyme. *Br.J.Pharmacol.* **149** 775. PMID: 17016495.

**Poucher *et al*** (2007) An assessment of the *in vivo* efficacy of the glycogen phosphorylase inhibitor GPI688 in rat models of hyperglycaemia. *Br.J.Pharmacol.* **152** 1239. PMID: 17934512.

**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 25 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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