

**Product Name:** GPBAR-A

**Catalog No.:** 4478

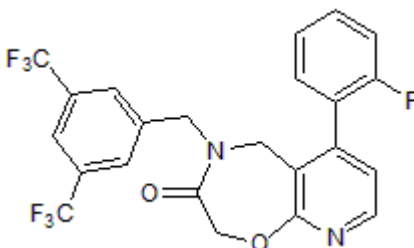
**Batch No.:** 1

CAS Number: 877052-79-4

IUPAC Name: 4-[[3,5-Bis(trifluoromethyl)phenyl]methyl]-6-(2-fluorophenyl)-4,5-dihydro-pyrido[3,2-f]-1,4-oxazepin-3(2H)-one

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>23</sub>H<sub>15</sub>F<sub>7</sub>N<sub>2</sub>O<sub>2</sub>  
**Batch Molecular Weight:** 484.37  
**Physical Appearance:** Off-white solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 20 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.73 (Dichloromethane:Methanol [95:5])  
**HPLC:** Shows 99.4% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	57.03	3.12	5.78
Found	57.37	2.96	5.72

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

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**Description:**

GPBA receptor agonist. Upregulates GLP-1 secretion from intestinal cultures. Increases MQAE-fluorescence suggesting a decrease in intracellular chloride concentration in gallbladder epithelial cells.

**Physical and Chemical Properties:**

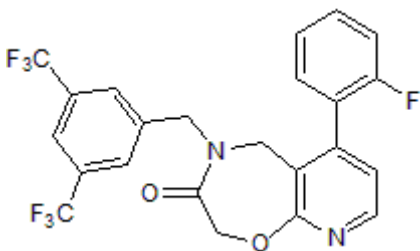
Batch Molecular Formula: C<sub>23</sub>H<sub>15</sub>F<sub>7</sub>N<sub>2</sub>O<sub>2</sub>

Batch Molecular Weight: 484.37

Physical Appearance: Off-white solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**References:**

**Parker et al** (2012) Molecular mechanisms underlying bile acid-stimulated glucagon-like peptide-1 secretion. *Br.J.Pharmacol.* **165** 414. PMID: 21718300.

**Keitel et al** (2009) The membrane-bound bile acid receptor TGR5 is localized in the epithelium of human gallbladders. *Hepatology* **50** 861. PMID: 19582812.

**Storage:** Store at -20°C

**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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