

**Product Name:** Fatostatin A

**Catalog No.:** 4444

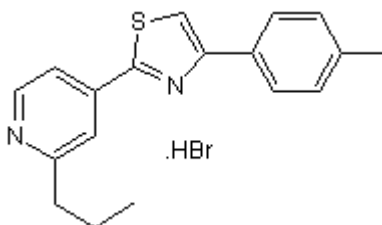
**Batch No.:** 1

**CAS Number:** 298197-04-3

**IUPAC Name:** 4-[4-(4-Methylphenyl)-2-thiazolyl]-2-propylpyridine hydrobromide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>18</sub>H<sub>18</sub>N<sub>2</sub>S.HBr  
**Batch Molecular Weight:** 375.33  
**Physical Appearance:** Yellow solid  
**Solubility:** DMSO to 20 mM  
 ethanol to 10 mM with gentle warming  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 98.3% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	57.6	5.1	7.46
Found	57.32	5.13	7.33

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**Description:**

Inhibitor of sterol regulatory element binding protein (SREBP); impairs the activation of SREBP-1 and SREBP-2. Exhibits antiproliferative effects in DU 145 cells independently of IGF-1 signaling ( $IC_{50} = 0.1 \mu M$ ); reverses hyperglycemia in diabetic (ob/ob) mice. Cell permeable.

**Physical and Chemical Properties:**

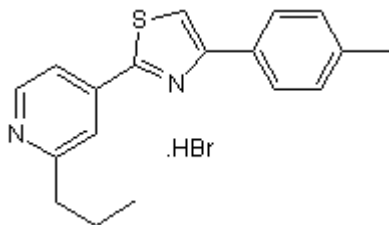
Batch Molecular Formula:  $C_{18}H_{18}N_2S \cdot HBr$

Batch Molecular Weight: 375.33

Physical Appearance: Yellow solid

**Minimum Purity:** >97%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 20 mM

ethanol to 10 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:**

**Choi et al** (2003) Identification of bioactive molecules by adipogenesis profiling of organic compounds. *J.Biol.Chem.* **278** 7320. PMID: 12496288.

**Kamisuki et al** (2009) A small molecule that blocks fat synthesis by inhibiting the activation of SREBP. *Chem.Biol.* **16** 882. PMID: 19716478.

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