Print Date: May 29th 2019

Certificate of Analysis

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Product Name: **Fatostatin A** **Catalog No.: 4444** **Batch No.: 2**

CAS Number: 298197-04-3

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

1. PHYSICAL AND CHEMICAL PROPERTIES

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

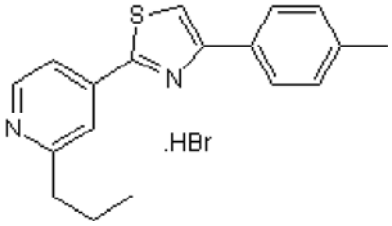
Batch Molecular Weight: 375.33

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 99.3% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	57.6	5.1	7.46
Found	57.7	5.07	7.47

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

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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 µM); reverses hyperglycemia in diabetic (ob/ob) mice. Cell permeable.

Physical and Chemical Properties:

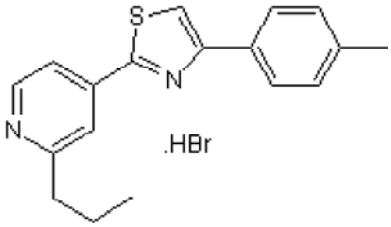
Batch Molecular Formula: $C_{18}H_{18}N_2S.HBr$

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:

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

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