Print Date: May 3rd 2017

# Certificate of Analysis

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**Product Name:** **Fasentin** **Catalog No.: 6100** **Batch No.: 1**

CAS Number: 392721-37-8

IUPAC Name: *N*-(4-Chloro-3-(trifluoromethyl)phenyl)-3-oxobutanamide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** $C_{11}H_9ClF_3NO_2.¼H_2O$

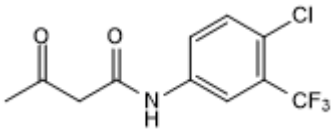
**Batch Molecular Weight:** 284.14

**Physical Appearance:** White solid

**Solubility:** DMSO to 100 mM
ethanol to 100 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**




## 2. ANALYTICAL DATA

**HPLC:** Shows 99.2% purity

**$^1$H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

| | Carbon | Hydrogen | Nitrogen |
|---|---|---|---|
| Theoretical | 46.5 | 3.37 | 4.93 |
| Found | 46.8 | 3.15 | 4.84 |



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# Product Information

**Product Name:** **Fasentin** **Catalog No.: 6100** **Batch No.: 1**

CAS Number: 392721-37-8

IUPAC Name: *N*-(4-Chloro-3-(trifluoromethyl)phenyl)-3-oxobutanamide

**Description:**

GLUT1 and GLUT4 inhibitor ($IC_{50}$ = 68 µM). Preferentially inhibits GLUT4 over GLUT1. Sensitizes Fas receptor in a range of tumor cell lines ($IC_{50}$ = 20 µM) by modulating the extrinsic apoptotic pathway downstream of TNF receptors but upstream of effector caspases.

**Physical and Chemical Properties:**

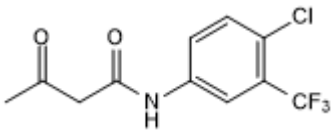
Batch Molecular Formula: $C_{11}H_9ClF_3NO_2.¼H_2O$

Batch Molecular Weight: 284.14

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**




**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 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.

**References:**

**Granchi** *et al* (2016) Anticancer agents interacting with membrane glucose transporters. Med.Chem.Comm. ***7*** 1716. PMID: 28042452 .

**Wood** *et al* (2008) A novel inhibitor of glucose uptake sensitizes cells to FAS-induced cell death. Mol.Cancer.Ther. ***7*** 3546. PMID: 19001437.

**Schimmer** *et al* (2006) Identification of small molecules that sensitize resistant tumor cells to tumor necrosis factor-family death receptors. Cancer.Res. ***66*** 2367. PMID: 16489043.