

Product Name: O412

Catalog No.: 5664

Batch No.: 1

CAS Number: 165682-93-9

IUPAC Name: Ethyl 2-[(4-chlorophenyl)amino]-4-thiazolecarboxylate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₂H₁₁ClN₂O₂S·½H₂O

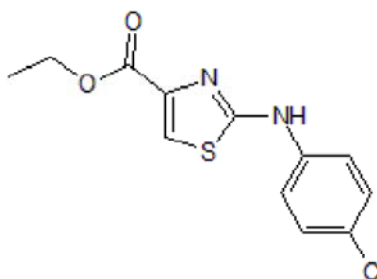
Batch Molecular Weight: 287.25

Physical Appearance: Yellow solid

Solubility: DMSO to 100 mM
ethanol to 50 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.6% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	50.18	4.04	9.75
Found	50.09	3.7	9.69

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

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Catalog No.: 5664

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IUPAC Name: Ethyl 2-[(4-chlorophenyl)amino]-4-thiazolecarboxylate

Description:

O412 is an Oct3/4 inducer; promotes Oct3/4 expression and stabilizes the Oct3/4 protein in HEK293 cells. Induces expression of pluripotent-associated genes Lin28, Sox2 and Nanog, and suppresses Rex1. Induces 15-fold increase in Oct3/4 expression in human primary fibroblasts.

Physical and Chemical Properties:

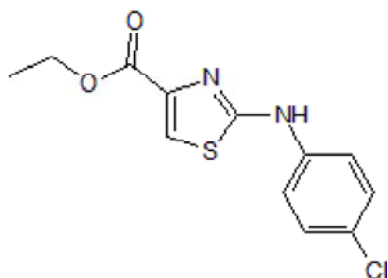
Batch Molecular Formula: C₁₂H₁₁ClN₂O₂S.½H₂O

Batch Molecular Weight: 287.25

Physical Appearance: Yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Cheng et al (2015) Ethyl 2-[(4-Chlorophenyl)amino]thiazole-4-carboxylate and derivatives are potent inducers of Oct3/4. *J.Med.Chem.* **58** 5742. PMID: 26143659.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 50 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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