Print Date: Jan 3rd 2019

Certificate of Analysis

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Product Name: **Epiblastin A** **Catalog No.: 6340** **Batch No.: 1**

CAS Number: 16470-02-3

IUPAC Name: 6-(3-Chlorophenyl)-2,4,7-pteridinetriamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{12}H_{10}ClN_7$.

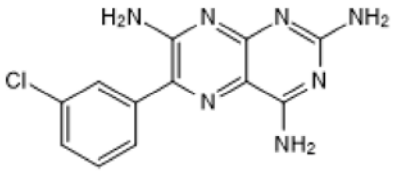
Batch Molecular Weight: 287.71

Physical Appearance: Yellow solid

Solubility: DMSO to 20 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.8% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	50.1	3.5	34.08
Found	50.09	3.48	33.96

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Product Information

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Description:

CK1 inhibitor (IC_{50} values are 0.8, 3.7 and 3.8 μM for CK1δ, CK1ε and CK1α). Converts late-stage epiblast stem cells into germline-competent embryonic SC-like cells. Promotes activation and maintenance of the pluripotency network. Promotes ESC self-renewal at a concentration of 2 μM.

Physical and Chemical Properties:

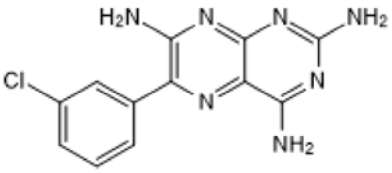
Batch Molecular Formula: $C_{12}H_{10}ClN_7$.

Batch Molecular Weight: 287.71

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO 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.

References:

Illich *et al* (2016) Distinct signaling requirements for the establishment of ESC pluripotency in late-stage EpiSCs. Cell Rep. ***15*** 787. PMID: 27149845.

Ursu *et al* (2016) Epiblastin A induces reprogramming of epiblast stem cells Into embryonic stem cells by inhibition of casein kinase 1. Cell Chem.Bio. ***23*** 494. PMID: 27049670.