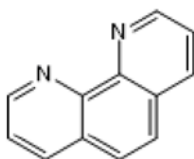


Product Name: Phenanthroline
CAS Number: 66-71-7
IUPAC Name: 1,10-Phenanthroline

Catalog No.: 6385 **Batch No.:** 1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₂H₈N₂·¼H₂O
Batch Molecular Weight: 184.71
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	78.03	4.64	15.17
Found	78.02	4.64	15.14

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

Product Name: Phenanthroline

Catalog No.: 6385

Batch No.: 1

CAS Number: 66-71-7

IUPAC Name: 1,10-Phenanthroline

Description:

Enhances hPSC differentiation into cranial placode cells.
Induces a 5-fold increase in cells expressing SIX1.

Physical and Chemical Properties:

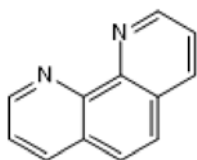
Batch Molecular Formula: C₁₂H₈N₂·¼H₂O

Batch Molecular Weight: 184.71

Physical Appearance: Off White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at RT

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:

Tchieu *et al* (2017) A modular platform for differentiation of human PSCs into all major ectodermal lineages. *Cell Stem Cell* **21** 399. PMID: 28886367.

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