

Product Name: CEP

Catalog No.: 8108

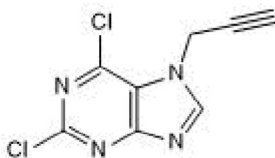
Batch No.: 1

CAS Number: 1838570-66-3

IUPAC Name: 2,6-Dichloro-7-(2-propyn-1-yl)-7H-purine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₈H₄Cl₂N₄
Batch Molecular Weight: 227.05
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 10 mM with gentle warming
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.1% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	42.32	1.78	24.68
Found	42.48	1.74	24.67

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

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CAS Number: 1838570-66-3

IUPAC Name: 2,6-Dichloro-7-(2-propyn-1-yl)-7H-purine

Description:

CEP is a chemoproteomic reagent. It is a clickable electrophilic purine used to directly quantify protein-RNA interactions on proteins through photoaffinity competition with 4-thiouridine (4SU)-labeled RNA in cells. It is a cysteine reactive probe used in photo-activatable-competition and chemoproteomic enrichment (PACCE) method for global quantification of protein-RNA interactions in living cells.

Physical and Chemical Properties:

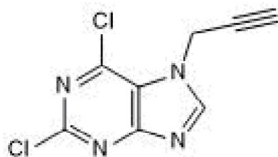
Batch Molecular Formula: C₈H₄Cl₂N₄

Batch Molecular Weight: 227.05

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Heindel *et al* (2023) Chemoproteomic capture of RNA binding activity in living cells. *Nat. Commun.* **14** 6282. PMID: 37805600.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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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