

Product Name: CL 075

Catalog No.: 6142

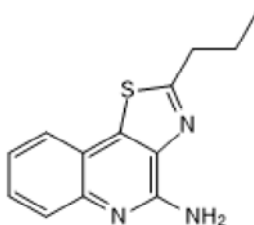
Batch No.: 1

CAS Number: 256922-53-9

IUPAC Name: 2-Propylthiazolo[4,5-c]quinolin-4-amine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃H₁₃N₃S
Batch Molecular Weight: 243.33
Physical Appearance: Beige solid
Solubility: DMSO to 50 mM
ethanol to 10 mM
Storage: Store at +4°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	64.17	5.39	17.27
Found	64	5.36	17.19

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

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IUPAC Name: 2-Propylthiazolo[4,5-c]quinolin-4-amine

Description:

CL 075 is a TLR8 agonist. Induces production of TNF- α and IL-12 from peripheral blood mononuclear cells (PBMCs). Promotes maturation of monocyte-derived dendritic cells in combination with Poly(I:C) (Cat. No. 4287).

Physical and Chemical Properties:

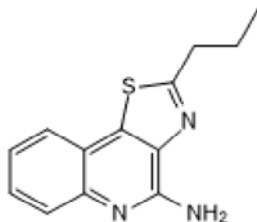
Batch Molecular Formula: C₁₃H₁₃N₃S

Batch Molecular Weight: 243.33

Physical Appearance: Beige solid

Minimum Purity: \geq 98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 50 mM

ethanol to 10 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:

Pang *et al* (2011) Inhibition of TLR8- and TLR4-induced Type I IFN induction by alcohol is different from its effects on inflammatory cytokine production in monocytes. *BMC Immunol.* **12** 55. PMID: 21962237.

Spranger *et al* (2010) Generation of Th1-polarizing dendritic cells using the TLR7/8 agonist CL075. *J.Immunol.* **185** 738. PMID: 20511554.

Gorden *et al* (2005) Synthetic TLR agonists reveal functional differences between human TLR7 and TLR8. *J.Immunol.* **174** 1259. PMID: 15661881.

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