Certificate of Analysis

Product Name: **TH 10785** **Catalog No.: 7778** **Batch No.: 1**

CAS Number: 1002801-51-5

IUPAC Name: *N*-Cyclohexyl-2-cyclopropyl-4-quinazolinamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{17}H_{21}N_3$

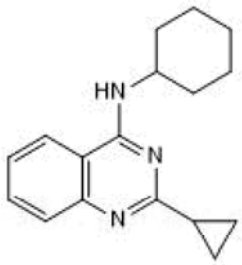
Batch Molecular Weight: 267.38

Physical Appearance: Off-white solid

Solubility: DMSO to 100 mM
ethanol to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.9% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	76.37	7.92	15.72
Found	76.45	8.05	15.76

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IUPAC Name: *N*-Cyclohexyl-2-cyclopropyl-4-quinazolinamine

Description:

TH 10785 is an 8-oxo guanine DNA glycosylase 1 (OGG1) activator. It binds in the active site of OGG1 and increases its recruitment to oxidative DNA damage and its repair.

Physical and Chemical Properties:

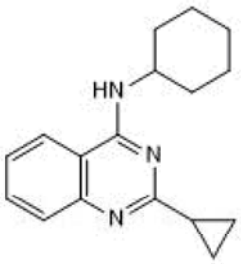
Batch Molecular Formula: $C_{17}H_{21}N_3$

Batch Molecular Weight: 267.38

Physical Appearance: Off-white solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

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:

Michel *et al* (2022) Small-molecule activation of OGG1 increases oxidative DNA damage repair by gaining a new function. Science ***376*** 1471. PMID: 35737787.