

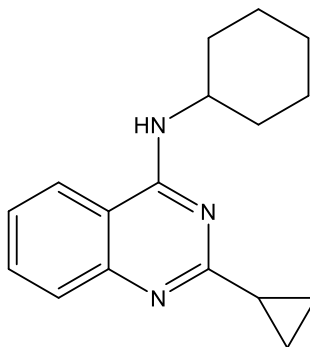
Catalog # 10-5698

TH10785

CAS# 1002801-51-5

N-Cyclohexyl-2-cyclopropyl-4-quinazolinamine

Lot # S107052



TH10785 is an 8-oxo guanine DNA glycosylase 1 (OGG1) activator. Oxidative DNA damage is recognized by OGG1 which then excises 8-oxoguanine, leaving a substrate for apurinic endonuclease 1 (APE1) and initiating DNA repair. TH10785 binds to Phe³¹⁹ and Gly⁴² of OGG1 increasing its catalytic activity 10-fold and generating a previously undescribed β,δ -lyase enzymatic function. TH10785 increases OGG1 recruitment to and repair of oxidative DNA damage. Increased repair of oxidative DNA damage by small molecules may have therapeutic applications in various diseases and aging.¹

- 1) Michel *et al.* (2022), *Small-molecule activation of OGG1 Increases oxidative DNA damage repair by gaining a new function*; Science **376** 1471

PHYSICAL DATA

Molecular Weight:	267.38
Molecular Formula:	C ₁₇ H ₂₁ N ₃
Purity:	>98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (50 mg/ml with)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 2 months.

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