

## TH10785, OGG1 activator

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Catalog	Unit
TBI5698-5MG	5 mg
TBI5698-25MG	25 mg

### Product Details

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

**Molecular Formula:** C<sub>17</sub>H<sub>21</sub>N<sub>3</sub>

**Formula Weight:** 267.40

**CAS Number:** 1002801-51-5

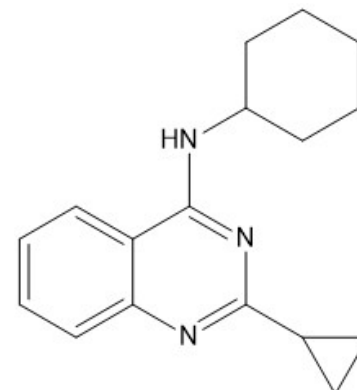
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (50 mg/ml)

**Storage:** -20°C

**Stability:** ≥ 1 year.



### Applications

OGG1 activator

### Functions

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  $\beta,\delta$ -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.

### Application Procedures

First dissolved in DMSO (50 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 2 months.

**For research use only.**