

3-Methyladenine, PI3K inhibitor

Catalog	Unit
TBI2686-20MG	20mg
TBI2686-100MG	100mg

Product Details

Formal Name: 3-Methyl-3H-purin-6-amine

Alternate Names: 3-MA

Molecular Formula: C₆H₇N₅

Formula Weight: 149.20

CAS Number: 5142-23-4

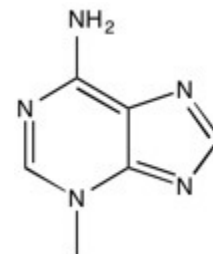
Purity: >98%

Formulation: powder

Solubility: Soluble in Water (up to 5 mg/ml), or in DMSO (up to 3 mg/ml), or in DMF (up to 10 mg/ml).

Storage: -20°C

Stability: ≥ 2 years.



Applications

PI3K inhibitor

Functions

Inhibits autophagy by blocking autophagosome formation via inhibition of type III phosphatidylinositol 3-kinases (PI-3K). Protects 1321N1 astrocytoma cells against pyocyanin and hydroxyphenazine-induced toxicity. Inhibition of autophagy by 3-MA leads to enhanced apoptosis induced by a variety of agents including celastrol, cisplatin and sorafenib in several different cell lines. Increases CHO cell monoclonal antibody output.

Application Procedures

First dissolved in Water (up to 5 mg/ml), or in DMSO (up to 3 mg/ml), or in DMF (up to 10 mg/ml), then diluted to aqueous buffer. Solutions in water, DMSO or DMF may be stored at -20°C for up to 3 months.

For research use only.