

# AZ32

**Catalog No: tcsc0044831**



## Available Sizes

**Size:** 5mg

**Size:** 10mg

**Size:** 50mg

**Size:** 100mg



## Specifications

**Formula:**

$C_{20}H_{16}N_4O$

**Pathway:**

Cell Cycle/DNA Damage;PI3K/Akt/mTOR

**Target:**

ATM/ATR;ATM/ATR

**Purity / Grade:**

>98%

**Solubility:**

DMSO :  $\geq 150$  mg/mL (456.80 mM)

**Observed Molecular Weight:**

328.37

## Product Description

AZ32 is an orally bioavailable and blood-brain barrier-penetrating **ATM** inhibitor with an **IC<sub>50</sub>** of  $IC_{50}$  of 0.31  $\mu$ M for ATM in cell.

IC50 & Target: IC50: [1]

**In Vitro:** AZ32 is a next-generation blood-brain barrier (BBB)-penetrating ATM inhibitor. AZ32 blocks the DNA damage response and

radiosensitized GBM cells in vitro<sup>[1]</sup>.

***In Vivo:*** AZ32, with enhanced BBB penetration, is highly efficient in vivo as radiosensitizer in syngeneic and human, orthotopic mouse glioma model compared with AZ31. AZ32 is a specific inhibitor of the ATM kinase that possesses good BBB penetration in mouse. Following a single oral dose of AZ32 (200 mg/kg) in mice, the free-brain concentrations of AZ32 are in excess of the cellular IC<sub>50</sub> for approximately 22 hours<sup>[1]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!