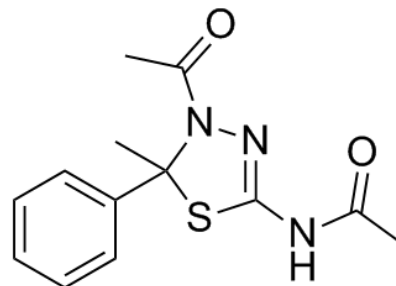


Product Name : K858
Cat. No. : PC-45767
CAS No. : 72926-24-0
Molecular Formula : C₁₃H₁₅N₃O₂S
Molecular Weight : 277.3421
Target : Kinesin
Solubility : 10 mM in DMSO



Biological Activity

K858 is a potent, selective inhibitor of mitotic **kinesin Eg5** ATPase activity with IC₅₀ of 1.3 μM.

K858 displays >150-fold more selective for Eg5 than other members of the kinesin superfamily.

K858 induces mitotic arrest, apoptosis, and cell growth inhibition through the activation of the Mad2-mediated spindle checkpoint, and has no effect on microtubule polymerization.

K858 exhibits potent antitumor activity in xenograft models of cancer, and induces the accumulation of mitotic cells with monopolar spindles in tumor tissues.

References

Nakai R, et al. **Cancer Res.** 2009 May 1;69(9):3901-9.

De Iuliis F, et al. **Invest New Drugs.** 2016 Aug;34(4):399-406.

De Monte C, et al. **Eur J Med Chem.** 2015 Nov 13;105:245-62.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com