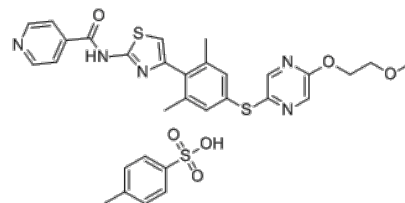


Product Name : T-1101 tosylate
Cat. No. : PC-20310
CAS No. : 2250404-95-4
Molecular Formula : C₃₁H₃₁N₅O₆S₃
Molecular Weight : 665.80
Target : Hec1/Nek2
Solubility : 10 mM in DMSO



Biological Activity

T-1101 tosylate (TAI-95 tosylate) is a potent, orally bioavailable Hec1 inhibitor that disrupts **Hec1-Nek2** protein interaction wide anti-cancer spectrum (GI50=14.29-73.65 nM, breast cancer cell lines).

T-1101 tosylate demonstrates strong inhibition of in vivo tumor growth of breast cancer models without inducing weight loss or other obvious toxicity.

T-1101 tosylate induces apoptotic cell death, shows activity on MDR cell lines and leads to downregulation of the expression of P-glycoprotein (Pgp).

T-1101 tosylate also increases the potency of cytotoxic Pgp substrates, including doxorubicin and topotecan.

T-1101 tosylate showed promise in antitumor activity in mice bearing human tumor xenografts of liver cancer (Huh-7), as well as of breast cancer (BT474, MDA-MB-231, and MCF7) with oral administration.

References

Huang LY, et al. *Mol Cancer Ther.* 2014 Jun;13(6):1419-30.

Chuang SH, et al. *Eur J Med Chem.* 2020 Apr 1;191:112118.

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

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