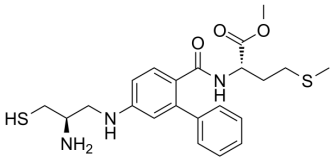
FTI-277

Cat. No.:	HY-15872
CAS No.:	170006-73-2
Molecular Formula:	$C_{22}H_{29}N_3O_3S_2$
Molecular Weight:	447.61
Target:	Farnesyl Transferase; Apoptosis; Ras
Pathway:	Metabolic Enzyme/Protease; Apoptosis; GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	FTI-277 is an inhibitor of farnesyl transferase (FTase); a highly potent Ras CAAX peptidomimetic which antagonizes both H- and K-Ras oncogenic signaling. FTI-277 can inhibit hepatitis delta virus (HDV) infection.
In Vitro	Treatment with FTI-277 (20 μM) for 48 h prior to irradiation led to a significant decrease in survival of radioresistant cells expressing the 24-kDa isoform (HeLa 3A) but had no effect on the survival of control cells (HeLa PINA). The radiosensitizing effect of FTI-277 is accompanied by a stimulation of postmitotic cell death in HeLa 3A cells and by a reduction in G(2)/M-phase arrest in both cell types[1] . Treatment of PC-3 cells with GGTI-298 and FTI-277 inhibited migration and invasion in a time- and dose-dependent manner [3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	FTI-277 treatment prevented increased PTP-1B and PTEN protein expression in burned mice as compared with vehicle alone. In contrast, FTI-277 did not significantly alter protein expression of PTP-1B and PTEN in sham-burned mice[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Fish Shellfish Immunol. 2019 Apr 3;89:281-289.
- Oncotarget. 2017 Nov 22;8(65):109135-109150.

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REFERENCES

[1]. Cohen-Jonathan E, et al. The farnesyltransferase inhibitor FTI-277 suppresses the 24-kDa FGF2-induced radioresistance in HeLa cells expressing wild-type RAS. Radiat Res. 1999 Oct;152(4):404-11.

[2]. Nakazawa H, et al. Role of protein farnesylation in burn-induced metabolic derangements and insulin resistance in mouse skeletal muscle. PLoS One. 2015 Jan 16;10(1):e0116633.

[3]. Virtanen SS, et al. Inhibition of GGTase-I and FTase disrupts cytoskeletal organization of human PC-3 prostate cancer cells. Cell Biol Int. 2010 Aug;34(8):815-26.

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