GNE-274

®

MedChemExpress

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway:	HY-141551 2369048-69-9 C ₂₉ H ₃₁ NO ₄ 457.56 Estrogen Receptor/ERR Vitamin D Related/Nuclear Receptor	HO C C N
Storage:	4°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)	

SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg	
	Preparing Stock Solutions	1 mM	2.1855 mL	10.9275 mL	21.8551 mL	
		5 mM	0.4371 mL	2.1855 mL	4.3710 mL	
		10 mM	0.2186 mL	1.0928 mL	2.1855 mL	
	Please refer to the so	Please refer to the solubility information to select the appropriate solvent.				
n Vivo		one by one: 10% DMSO >> 40% PEG ;/mL (3.82 mM); Clear solution; Need		0 >> 45% saline		
		one by one: 10% DMSO >> 90% (20 5/mL (3.82 mM); Clear solution; Need)		

BIOLOGICAL ACTIV	
DIOLOGICAL ACTI	
Description	GNE-274 is a non-degrader that is structurally related to GDC-0927 (ER degrader). GNE-274 does not induce ER turnover and functions as a partial ER agonist in breast cancer cell lines. GNE-274 increase chromatin accessibility at ER-DNA binding sites, while GDC-0927 do not. GNE-274 is a potent inhibitor of ER-ligand binding domain (LBD). GNE-274 can be used for cancer research ^{[1][2]} .
In Vitro	GNE-274 (0.1 nM-1000 nM; 4 hours) fails to trigger increased ER turnover in MCF7, MD-134, HCC1500 and CAMA cells ^[1] . GNE-274 (1-1000 nM; 7-10 days) potently inhibits cellular proliferation, exhibiting greater potency than fulvestrant, 4-OHT, AZD9496, and GDC-0810 in E2-stimulated ER ⁺ breast cancer cell lines ^[1] . In transposaseaccessible chromatin sequencing (ATAC-seq) assay, GNE-274 increase chromatin accessibility at ER-DNA binding sites, it significantly alters chromatin accessibility at 594 sites. But GDC-0927 has considerably less impact on chromatin accessibility ^[1] .

Product Data Sheet

Cell Viability Assay ^[1]	
Cell Line:	MCF7, MB-134, HCC1500, EFM-19, CAMA-1, T-47D cells
Concentration:	1 nM; 10 nM; 100 nM; 1000 nM
Incubation Time:	7-10 days
Result:	Exhibited IC ₅₀ values approximately ranging from 5nM to 20 nM in different cell

REFERENCES

[1]. Jane Guan, et al. Therapeutic Ligands Antagonize Estrogen Receptor Function by Impairing Its Mobility. Cell. 2019 Aug 8;178(4):949-963.e18.

[2]. Jane Guan, et al. Abstract NG05: Not all "SERDs" are equal: Context-independent ER degradation and full ER antagonism define the next generation of ER therapeutics. Cancer research.

Caution: Product has not been fully validated for medical applications. For research use only.

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