

GNE-274

## Chemical Properties

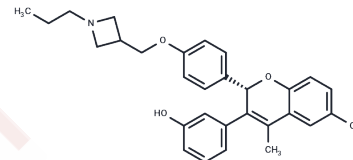
CAS No. : 2369048-69-9

Formula: C<sub>29</sub>H<sub>31</sub>NO<sub>4</sub>

Molecular Weight: 457.57

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	GNE-274, a non-degrader compound structurally similar to GDC-0927 (an ER degrader), serves as a partial ER agonist in breast cancer cell lines without triggering ER turnover. Notably, GNE-274 enhances chromatin accessibility at ER-DNA binding sites, unlike GDC-0927. Acting as a potent inhibitor of the ER-ligand binding domain (LBD), GNE-274 exhibits potential for cancer research purposes.
Targets(IC50)	Estrogen Receptor/ERR,Others
In vitro	GNE-274, at concentrations ranging from 0.1 nM to 1000 nM and applied over 4 hours, does not initiate increased ER turnover in MCF7, MB-134, HCC1500, and CAMA cells. However, when used at concentrations of 1-1000 nM for 7-10 days, it significantly suppresses cellular proliferation in E2-stimulated ER+ breast cancer cell lines, demonstrating superior efficacy compared to fulvestrant, 4-OHT, AZD9496, and GDC-0810. Additionally, GNE-274 enhances chromatin accessibility at ER-DNA binding sites in an ATAC-seq assay, altering accessibility at 594 sites distinctly, whereas GDC-0927 shows minimal impact. In a Cell Viability Assay involving various cell lines (MCF7, MB-134, HCC1500, EFM-19, CAMA-1, T-47D), with treatment concentrations from 1 nM to 1000 nM over 7-10 days, GNE-274 demonstrates IC 50 values roughly between 5nM to 20 nM, indicating its potency in inhibiting cell viability across different cells.

### Preparing Stock Solutions

---

	1mg	5mg	10mg
1 mM	2.1855 mL	10.9273 mL	21.8546 mL
5 mM	0.4371 mL	2.1855 mL	4.3709 mL
10 mM	0.2185 mL	1.0927 mL	2.1855 mL
50 mM	0.0437 mL	0.2185 mL	0.4371 mL

---

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

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

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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481