

X15695

Chemical Properties

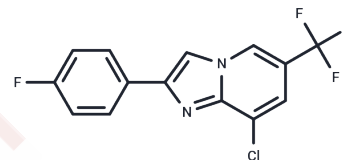
CAS No. : 353258-25-0

Formula: C₁₄H₇ClF₄N₂

Molecular Weight: 314.67

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	X15695 is a selective and orally active estrogen receptor (ER α) degrader, acting as a ligand for the aryl hydrocarbon receptor (AHR). It facilitates the formation of a complex between AHR and ER α , promoting proteasomal degradation. X15695 inhibits the proliferation of breast cancer cells, induces cell cycle arrest, and triggers apoptosis, making it useful for breast cancer research.
Targets(IC50)	Apoptosis,Estrogen Receptor/ERR,Aryl Hydrocarbon Receptor,MDM-2/p53
In vitro	X15695 inhibits the proliferation of MCF-7, MC7, and MC7 cells with IC ₅₀ values of 0.7 nM, 74.42 nM, and 0.38 nM, respectively, and in the presence of E ₂ , the IC ₅₀ values are 10.28 nM, 48.01 nM, and 10.78 nM. Even when AHR activity is suppressed by CH223191, X15695 continues to inhibit the clonal growth of MCF-7 cells. Additionally, X15695 (1-10 μ M, 7 days) suppresses the growth of organoids derived from patient-derived xenograft tumors (PDxO). At 1 μ M for 48 hours, X15695 activates wild-type p53 and disrupts the oncogenic function of mutant p53, effectively arresting the cell cycle and inducing apoptosis in MCF-7, T47D, LNCaP, and LAPC-4 cells.
In vivo	In mouse models, X15695 (administered at 15-30 mg/kg via gavage once daily for 16-42 days) effectively inhibited the growth of breast tumors, but showed limited efficacy against prostate tumor growth.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1779 mL	15.8897 mL	31.7793 mL
5 mM	0.6356 mL	3.1779 mL	6.3559 mL
10 mM	0.3178 mL	1.589 mL	3.1779 mL
50 mM	0.0636 mL	0.3178 mL	0.6356 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

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