

XCT790

Catalog No: tcsc2413



Available Sizes

Size: 10mg

Size: 50mg



Specifications

CAS No:

725247-18-7

Formula:

$C_{23}H_{13}F_9N_4O_3S$

Pathway:

Others;Autophagy

Target:

Estrogen Receptor/ERR;Autophagy

Purity / Grade:

>98%

Solubility:

DMSO : 21 mg/mL (35.21 mM; Need ultrasonic and warming)

Observed Molecular Weight:

596.42

Product Description

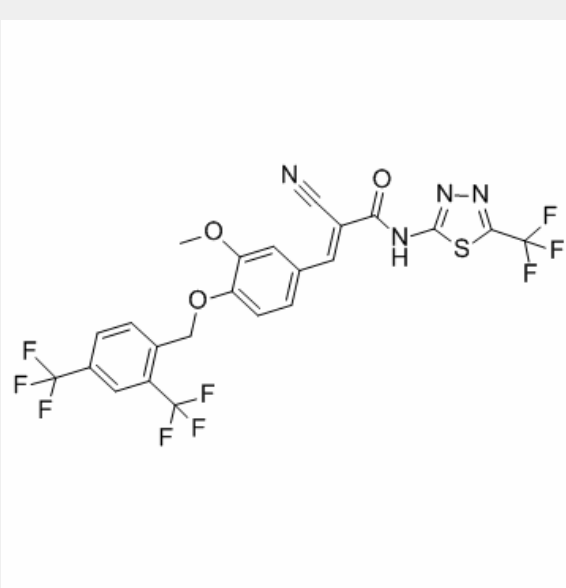
XCT-790 is a potent, selective and inverse agonist of estrogen-related receptor alpha(ER α); induces cell death in chemotherapeutic resistant cancer cells.

IC50 value:

Target: ER α

ERRalpha inverse agonist XCT-790 induced cell death in HepG2 hepatocarcinoma and its multi-drug resistance (MDR) sub-line R-HepG2. Using a dye Mitotracker Green which stains mitochondrion independent of mitochondrial membrane potential ($\Delta\psi(m)$), XCT-790 dose-dependently decreased mitochondrial mass. Intriguingly, XCT-790 increased $\Delta\psi(m)$ upon short term treatment but decreased $\Delta\psi(m)$ upon longer term treatment. XCT-790 synergized with paclitaxel to induce cell death in multi-drug resistance sub-line R-HepG2 [1].

XCT790 is a potent and specific inverse agonist of $ERR\alpha$. XCT790 shows no significant antagonist activity on related nuclear receptors, such as ERR or $ER\alpha$ at concentrations below 10 μM . This also inhibits the constitutive activity of ER (Estrogen Receptor) [2].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!