ICI 182,780, Estrogen receptor antagonist ab120131

6 References 1 Image

Overview

Product name ICI 182,780, Estrogen receptor antagonist
Description Estrogen receptor antagonist
Biological description Estrogen receptor antagonist with no partial agonist activity. Anticancer agent (IC_{50} = 0.29 nM for inhibition of breast cancer cell growth). Causes downregulation and loss of estrogen receptors.
Purity > 99%
CAS Number 129453-61-8
Chemical structure

Properties

Chemical name (7R,9S,13S,14S,17S)-7-(9-(4,4,5,5,5-Pentafluoropentylsulfinyl)nonyl)-7,8,9,11,12,13,14,15,16,17-decahydro-13-methyl-6H-cyclopenta[a]phenanthrene-3,17-diol
Molecular weight 606.77
Molecular formula C_{32}H_{47}F_{5}O_{3}S
PubChem identifier 17756771
Storage instructions Store at Room Temperature. The product can be stored for up to 12 months.
Solubility overview Soluble in DMSO to 100 mM and in ethanol to 50 mM
Handling Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.

SMILES FC(F)(F)CCCS(=O)CCCCCCCC[C@@H]2Cc1cc(O)ccc1[C@H]3CC[C@]4(C) [C@@H](O)CC[C@H]4C23
Source Synthetic
### Functional Studies - ICI 182,780, Estrogen receptor antagonist (ab120131)

**ab47489** staining BCL2 in MCF7 cells treated with ICI 182,780 (ab120131), by ICC/IF. Decrease in BCL2 expression correlates with increased concentration of ICI 182,780 as described in literature.

The cells were incubated at 37°C for 3h in media containing different concentrations of ab120131 (ICI 182,780) in DMSO, fixed with 4% formaldehyde for 10 minutes at room temperature and blocked with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% tween for 2h at room temperature. Staining of the treated cells with **ab47489** (5 µg/ml) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 goat anti-rabbit polyclonal antibody (**ab96899**) at 1/250 dilution was used as the secondary antibody. Nuclei were counterstained with DAPI and are shown in blue.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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