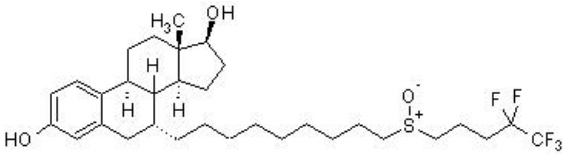
abcam

Product datasheet

ICI 182,780, Estrogen receptor antagonist ab120131

8 References 2 Images

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.
CAS Number	129453-61-8
Chemical structure	

Properties

Chemical name	(7*R*,9*S*,13*S*,14*S*,17*S*)-7-(9-(4,4,5,5,5-Pentafluoropentylsulfinyl)nonyl)-7,8,9,11,12,13,14,15,16,17-decahydro-13-methyl-6*H*-cyclopenta[*a*]phenanthrene-3,17-diol
Molecular weight	606.77
Molecular formula	$C_{32}H_{47}F_5O_3S$
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. Toxic, refer to SDS for further information. Need more advice on solubility, usage and handling? Please visit our **frequently asked questions (FAQ) page** for more details.
SMILES	FC(F)(F)C(F)(F)CCCS(=O)CCCCCCCCC[C@@H]2Cc1cc(O)ccc1[C@H]3CC[C@]4(C)[C@@H](O)CC[C@H]4C23

Source Synthetic

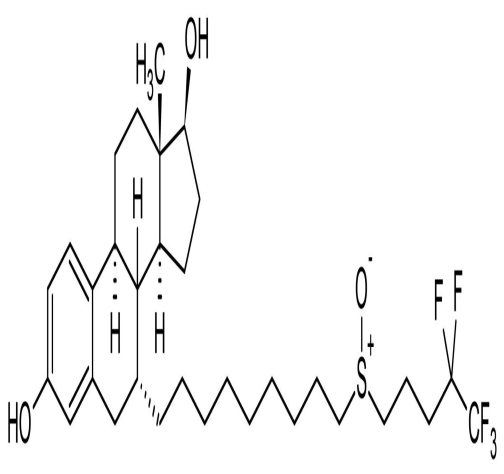
Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab120131 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

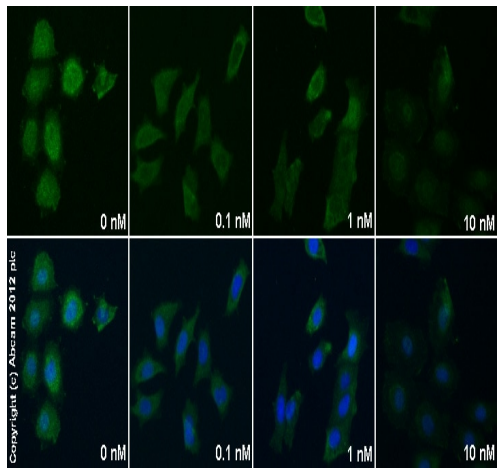
Application	Abreviews	Notes
Functional Studies		Use at an assay dependent concentration.

Images



Chemical Structure - ICI 182,780, Estrogen receptor antagonist (ab120131)

2D chemical structure image of ab120131, ICI 182,780, Estrogen receptor antagonist



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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