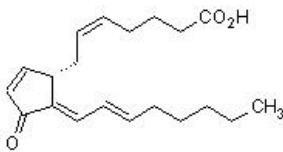


Product datasheet

15-Deoxy-Delta12,14-prostaglandin J2, Selective PPARgamma agonist ab141717

[1 References](#) [2 Images](#)

Overview

Product name	15-Deoxy-Delta12,14-prostaglandin J2, Selective PPARgamma agonist
Description	Selective PPAR γ agonist
Biological description	Selective agonist to PPAR γ . Inhibits the proliferation of cancer cell lines (IC ₅₀ = 22 μ M). Differentiates C3H10T1/2 fibroblasts into adipocytes. Active <i>in vitro</i> .
Purity	> 97%
CAS Number	87893-55-8
Chemical structure	

Properties

Chemical name	(Z)-7-[(1S,5E)-5-[(E)-Oct-2-enylidene]-4-oxocyclopent-2-en-1-yl]hept-5-enoic acid
Molecular weight	316.50
Molecular formula	C ₂₀ H ₂₈ O ₃
PubChem identifier	5311211
Storage instructions	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview	Soluble in DMSO to 75 mM and in ethanol to 75 mM
Handling	<p>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.</p> <p>Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.</p>
SMILES	<chem>CCCCC=CC=C1C(C=CC1=O)CC=CCCC(=O)O</chem>

Applications

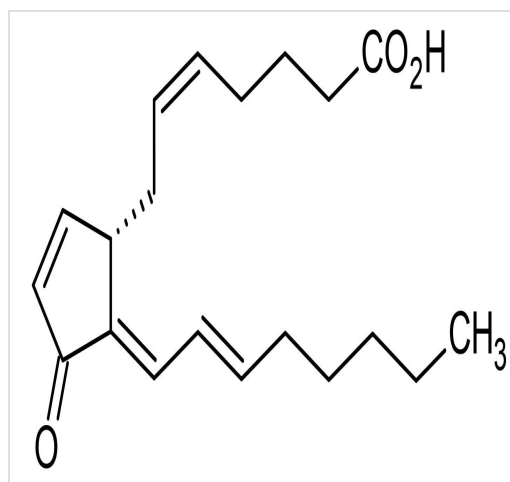
The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab141717 in the following tested applications.

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

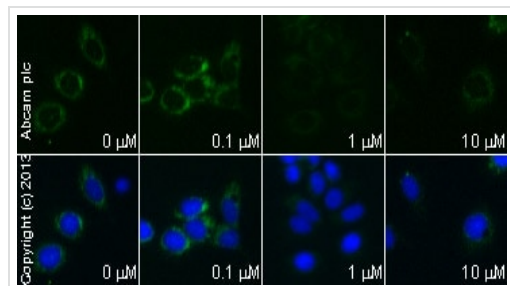
Application	Abreviews	Notes
Functional Studies		Use at an assay dependent concentration.

Images



2D chemical structure image of ab141717, 15-Deoxy-Delta12,14-prostaglandin J2, Selective PPARgamma agonist

Chemical Structure - 15-Deoxy-Delta12,14-prostaglandin J2, Selective PPARgamma agonist (ab141717)



Immunocytochemistry/ Immunofluorescence - 15-Deoxy-Delta12,14-prostaglandin J2, Selective PPARgamma agonist (ab141717)

ab110325 staining cytochrome C in MCF7 cells treated with 15-Deoxy-delta12,14-prostaglandin J2 (ab141717), by ICC/IF.

Expression of cytochrome C changes from mitochondrial puncta to a diffuse staining pattern with increased concentration of 15-Deoxy-delta12,14-prostaglandin J2, as described in literature.

The cells were incubated at 37°C for 24 hours in media containing different concentrations of ab141717 (15-Deoxy-delta12,14-prostaglandin J2) in DMSO, fixed with 100% methanol for 5 minutes at -20°C 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 **ab110325** (10 μg/ml) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 anti-mouse polyclonal antibody (**ab96879**) at 1/250 dilution was used as the secondary antibody. Nuclei (blue) were counterstained with DAPI and membrane is stained using

WGA (red).

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors
- Abcam biochemicals are novel compounds and we have not tested their biological activity in house. Please use the literature to identify how to use these products effectively. If you require further assistance please contact the scientific support team