Product datasheet

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

Overview

Product name
15-Deoxy-Delta12,14-prostaglandin J2, Selective PPARgamma agonist

Description
Selective PPARγ agonist

Biological description
Selective agonist to PPARγ. Inhibits the proliferation of cancer cell lines (IC\textsubscript{50} = 22 μM). Differentiates C3H10T1/2 fibroblasts into adipocytes. Active \textit{in vitro}.

Purity
> 97%

CAS Number
87893-55-8

Chemical structure

![Chemical structure](image)

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\textsubscript{20}H\textsubscript{28}O\textsubscript{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
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.

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Functional Studies - 15-Deoxy-Delta12,14-prostaglandin J2, Selective PPARgamma agonist (ab141717)

**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 was stained using WGA (red).

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

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