

**Product Name:** BMS 309403

**Catalog No.:** 5258

**Batch No.:** 2

CAS Number: 300657-03-8

IUPAC Name: 2-[[2'-(5-Ethyl-3,4-diphenyl-1*H*-pyrazol-1-yl)][1,1'-biphenyl]-3-yl]oxy]-acetic acid

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>31</sub>H<sub>26</sub>N<sub>2</sub>O<sub>3</sub>·¼H<sub>2</sub>O

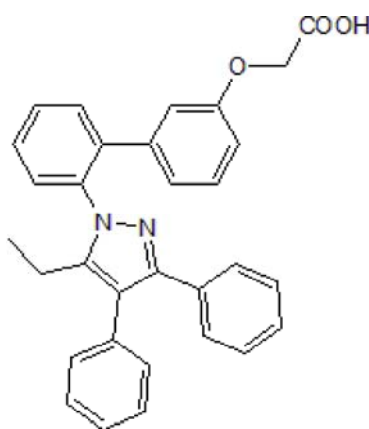
**Batch Molecular Weight:** 479.05

**Physical Appearance:** Off-white solid

**Solubility:** DMSO to 100 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 98.8% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	77.72	5.58	5.85
Found	77.75	5.55	5.76

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**Description:**

Potent and selective fatty acid binding protein 4, adipocyte (FABP4) inhibitor ( $K_i$  values are <2, 250 and 350 nM for FABP4, FABP3 and FABP5 respectively). Decreases fatty acid uptake in adipocytes in vitro and reduces atherosclerotic lesion area in a mouse model of atherosclerosis. Reduces blood glucose levels and increases insulin sensitivity in a mouse model of obesity. Orally active.

**Physical and Chemical Properties:**

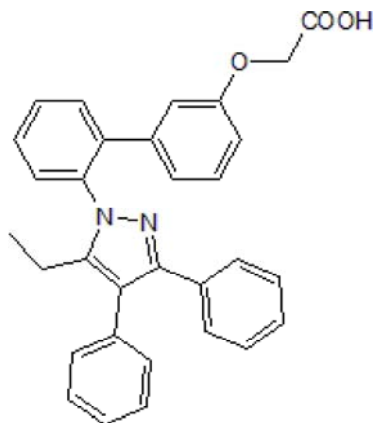
Batch Molecular Formula:  $C_{31}H_{26}N_2O_3 \cdot \frac{1}{4}H_2O$

Batch Molecular Weight: 479.05

Physical Appearance: Off-white solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

Lin *et al* (2012) BMS309403 stimulates glucose uptake in myotubes through activation of AMP-activated protein kinase. *PLoS ONE* **7** e44570. PMID: 22952994.

Furuhashi *et al* (2007) Treatment of diabetes and atherosclerosis by inhibiting fatty-acid-binding protein aP2. *Nature* **447** 959. PMID: 17554340.

Sulsky *et al* (2007) Potent and selective biphenylazole inhibitors of adipocyte fatty acid binding protein (aFABP). *Bioorg.Med.Chem.Lett.* **17** 3511. PMID: 17502136.

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