

Certificate of Analysis

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Product Name: FPR A14

Catalog No.: 2826

Batch No.: 1

CAS Number: 329691-12-5

IUPAC Name: 1,3-Benzodioxolane-5-carboxylic acid 4'-benzyloxy-3'-methoxybenzylidene hydrazide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₂₀N₂O₅·¼H₂O

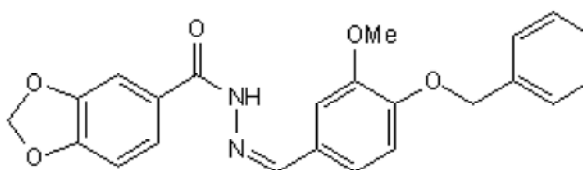
Batch Molecular Weight: 408.92

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.4 (Ethyl acetate:Petroleum ether [4:6])

HPLC: Shows 99.9% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	67.56	5.05	6.85
Found	67.85	5.06	6.81

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Product Information

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CAS Number: 329691-12-5

IUPAC Name: 1,3-Benzodioxolane-5-carboxylic acid 4'-benzyloxy-3'-methoxybenzylidene hydrazide

Description:

Formyl peptide receptor (FPR) agonist that potently activates neutrophils in vitro (EC_{50} values are 42 and 630 nM for neutrophil chemotaxis and Ca^{2+} mobilization respectively). Induces dose-dependent differentiation of mouse neuroblastoma N2a cells.

Physical and Chemical Properties:

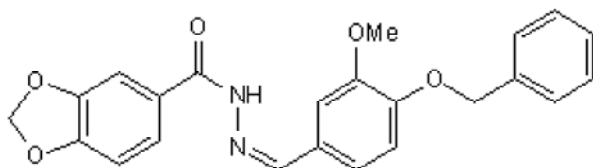
Batch Molecular Formula: $C_{23}H_{20}N_2O_5 \cdot \frac{1}{4}H_2O$

Batch Molecular Weight: 408.92

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

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:

Cussell et al (2019) The formyl peptide receptor agonist FPRa14 induces differentiation of Neuro2a mouse neuroblastoma cells into multiple distinct morphologies which can be specifically inhibited with FPR antagonists and FPR knockdown using siRNA. *PLoS One* **14** e0217815. PMID: 31170199.

Schepetkin et al (2007) High-throughput screening for small molecule activators of neutrophils: Identification of novel *N*-formyl peptide receptor agonists. *Mol.Pharmacol.* **71** 1061. PMID: 17229869.

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