

Product Name: IND 1316

Catalog No.: 7685

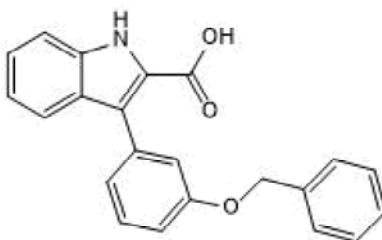
Batch No.: 1

CAS Number: 1888473-12-8

IUPAC Name: 3-[3-(Phenylmethoxy)phenyl]-1*H*-indole-2-carboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₁₇NO₃
Batch Molecular Weight: 343.38
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	76.95	4.99	4.08
Found	76.51	4.9	3.97

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

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IUPAC Name: 3-[3-(Phenylmethoxy)phenyl]-1*H*-indole-2-carboxylic acid

Description:

IND 1316 is an activator of AMP-activated protein kinase (AMPK). In vitro, it activates AMPK in a dose-dependent manner and induces different MAPK pathways (p38 and JNK). In vivo, it reduces the neuropathological symptoms in two animal models of Huntington's Disease (nematodes and mice). It shows very low toxicity even at high concentrations (>200 μM). This compound is orally bioavailable.

Physical and Chemical Properties:

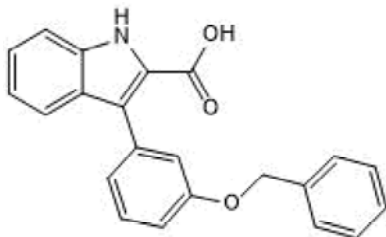
Batch Molecular Formula: C₂₂H₁₇NO₃

Batch Molecular Weight: 343.38

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Vela *et al* (2022) Neuroprotective effect of IND1316, an indole-based AMPK activator, in animal models of Huntington disease. ACS Chem.Neurosci. **13** 275. PMID: 34962383.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol 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.

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