Certificate of Analysis

Product Name: **PNU 74654** **Catalog No.: 3534** **Batch No.: 1**

CAS Number: 113906-27-7

IUPAC Name: 2-Phenoxybenzoic acid-[(5-methyl-2-furanyl)methylene]hydrazide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{19}H_{16}N_2O_3$

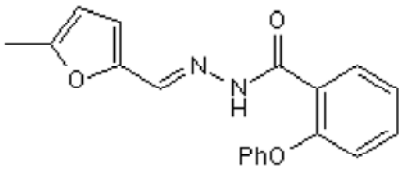
Batch Molecular Weight: 320.34

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.58 (Ethyl acetate:Petroleum ether [1:1])

HPLC: Shows 99.6% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	71.24	5.03	8.74
Found	70.78	4.9	8.52

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel:+1 612 379 2956

Product Information

Product Name: **PNU 74654** **Catalog No.: 3534** **Batch No.: 1**

CAS Number: 113906-27-7

IUPAC Name: 2-Phenoxybenzoic acid-[(5-methyl-2-furanyl)methylene]hydrazide

Description:

Binds to β-catenin (K_D = 450 nM). Inhibits the interaction between β-catenin and T cell factor 4 (Tcf4) and disrupts the Wnt signaling pathway. Promotes neural differentiation of hPSCs as part of a chemical cocktail.

Physical and Chemical Properties:

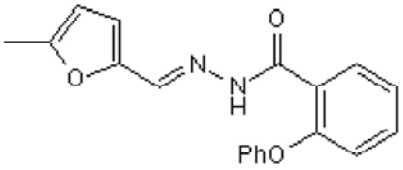
Batch Molecular Formula: $C_{19}H_{16}N_2O_3$

Batch Molecular Weight: 320.34

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at +4°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:

Chen *et al* (2019) Chemically defined neural conversion of human pluripotent stem cells. Methods Mol.Biol. ***1919*** 59. PMID: 30656621.

Wells and McClendon (2007) Reaching for high-hanging fruit in drug discovery at protein-protein interfaces. Nature ***450*** 1001. PMID: 18075579.

Trosset *et al* (2006) Inhibition of protein-protein interactions: the discovery of druglike beta-catenin inhibitors by combining virtual and biophysical screening. Proteins ***64*** 60. PMID: 16568448.

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel:+1 612 379 2956