

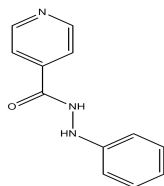
PRODUCT: PluriSIn 1

ALTERNATE NAME: 4-Pyridinecarboxylic acid, 2-phenylhydrazide; NSC-14613

CATALOG #: 2471-10, 50

AMOUNT: 10 mg, 50 mg

STRUCTURE:



MOLECULAR FORMULA: C₁₂H₁₁N₃O

MOLECULAR WEIGHT: 213.24

CAS No. 91396-88-2

APPEARANCE: Off-white solid

SOLUBILITY: DMSO (>20 mg/ml) or EtOH (>15 mg/ml)

PURITY: >98% by HPLC

STORAGE: Store at -20°C. Protect from air and light

DESCRIPTION: A selective inhibitor of steroyl-CoA desaturase 1 (SCD1), the key enzyme in oleic acid biosynthesis. PluriSIn 1, induces ER stress, protein synthesis attenuation, and apoptosis in hPSCs (human pluripotent stem cells). Also prevents teratoma formation from tumorigenic undifferentiated cells.

REFERENCES: Ben-David, U., *et al.* (2013). *Cell Stem Cell* **12**, 167-169.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS: D1 Inhibitor (**Cat. No. 1716-1, 5**)
 DiscoveryPak™ Stem Cell Fate Regulator Set I (**Cat. No. K852-3**)
 DiscoveryPak™ Stem Cell Fate Regulator Set II (**Cat. No. K853-8**)
 DiscoveryPak™ Stem Cell Fate Regulator Set III (**Cat. No. K854-3**)
 DiscoveryPak™ Stem Cell Fate Regulator Set IV (**Cat. No. K855-3**)
 DiscoveryPak™ Stem Cell Fate Regulator Set V (**Cat. No. K865-5**)
 DiscoveryPak™ Stem Cell Fate Regulator Set VI (**Cat. No. K866-5**)
 DiscoveryPak™ Stem Cell Fate Regulator Set VII (**Cat. No. K866-10**)
 (±)-Bay K 8644 (**Cat. No. 1682-5**)
 BIX01294 (**Cat. No. 1678-5, 25**)
 CHIR99021 (**Cat. No. 1677-5, 25**)
 EZSolution™ CHIR99021 (**Cat. No. 1748-5**)
 PD0325901 (**Cat. No. 1643-2**)
 PS-48 (**Cat. No. 1869-5**)
 Pyrintegrin (**Cat. No. 1729-1,5**)
 EZSolution™ Pyrintegrin (**Cat. No. 1737-1**)
 RepSox (**Cat. No. 1894-5, 25**)
 Reversine (**Cat. No. 1851-1, 5**)
 RG 108 (**Cat. No. 1679-10,30**)
 SB-431542 (**Cat. No. 1674-1**)
 EZSolution™ SB-431542 (**Cat. No. 1872-1**)
 SCD1 Inhibitor (**Cat. No. 1716-1, 5**)
 Sodium Butyrate (**Cat. No. 1609-100, 1000**)
 StemBoost™ Reprogramming Cocktail Set I (**Cat. No. K869-1ML, 5ML, 1set**)
 StemBoost™ Reprogramming Cocktail Set II (**Cat. No. K870-1ML, 5ML, 1set**)
 Thiazovivin (**Cat. No. 1681-1,5**)
 EZSolution™ Thiazovivin (**Cat. No. 1736-1**)
 Tranlycypromine Hemisulfate (Parnate) (**Cat. No. 1816-25,100**)
 Valproic Acid, Sodium Salt (**Cat. No. 1647-200**)
 Y-27632,2 HCl (**Cat. No. 1596-1, 5, 50**)
 EZSolution™ Y-27632, HCl (**Cat. No. 1784-5**)

FOR RESEARCH USE ONLY! Not to be used in humans.