

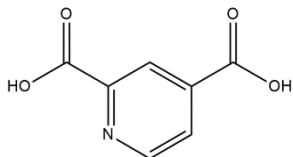
2,4-Pyridinedicarboxylic Acid

5/19

ALTERNATE NAMES: 2,4-Lutidinic acid, 2,4-Dicarboxypyridine, 4-carboxypicolinic acid, histone lysine demethylase inhibitor, Lutidinic acid

CATALOG #: B2809-100 100 mg
B2809-500 500 mg

STRUCTURE:



MOLECULAR FORMULA: C₇H₅NO₄

MOLECULAR WEIGHT: 167.12

CAS NUMBER: 499-80-9

APPEARANCE: Crystalline solid

PURITY: ≥98%

SOLUBILITY: ~1.4 mg/ml in DMSO

DESCRIPTION: 2,4-Pyridinedicarboxylic Acid is an inhibitor of histone lysine demethylases and 2-oxoglutarate oxygenases. It structurally mimics 2-oxoglutarate (2-OG) and chelates zinc, thus inhibiting a range of enzymes. As a 2-OG mimic it also inhibits prolyl, collagen and lysyl hydroxylases. It modulates hypoxia-inducible factor turnover, collagen synthesis and plant cell wall formation. It also inhibits zinc-dependent enzymes, like metallo-β-lactamase. It inhibits several Jumonji domain-containing lysine demethylases such as JMJD2A (KDM4A) and KDM4C. It reduced neointimal hyperplasia and inflammation in the carotid arteries of Diabetic Rats.

STORAGE TEMPERATURE: -20°C

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

RELATED PRODUCTS:

DiscoveryPak™ Epigenetic Modulators Set III (Cat. No. S220)
OG-L002 (Cat. No. 9406)
Pargyline hydrochloride (Cat. No. 2618)
Caffeic acid (Cat. No. 2303)
RN 1 dihydrochloride (Cat. No. B2080)

DISCLAIMER: *FOR RESEARCH USE ONLY! Not to be used on humans.*