

Product Name: Orotic acid (Standard)

Cat. No.: NATM-2505-CXX-154

Package: 10 mg/25 mg/50 mg/100 mg/200 mg/500 mg

Description

Orotic acid (Standard) is the analytical standard for Orotic acid, intended for research and analytical applications. Orotic acid (6-Carboxyuracil), a pyrimidine nucleotide and RNA precursor, is released from mitochondrial DHODH for cytoplasmic UMP synthase conversion to UMP. It's a marker for newborn screening of urea cycle disorders and can induce hepatic steatosis and hepatomegaly in rats.

Product Details

Synonyms: 6-Carboxyuracil (Standard); Vitamin B13 (Standard)

Purity: 0.98

Formula: C5H4N2O4

Molecular Weight: 156.10

SMILES: O=C(C(NC1=O)=CC(N1)=O)O

Appearance: Solid

Color: White to off-white

Biological Target: Nucleoside Antimetabolite/Analog; Endogenous Metabolite

Initial Source: Endogenous metabolite; Disease markers; Endocrine diseases; Endogenous metabolite; Disease markers; Nervous System Disorder; Endogenous metabolite; Human Gut Microbiota Metabolites; Microorganisms

Storage Information: Powder: -80°C, 2 years; -20°C, 1 years. In solvent: -80°C, 6 months; -20°C, 1 month

 For preclinical research and development use only; not intended for therapeutic or other applications.