

**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:** C<sub>5</sub>H<sub>4</sub>N<sub>2</sub>O<sub>4</sub>

**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.