Creative Enzymes®

L-4,5-Dihydroorotic Acid

Cat. No. CEGZ-6541

Lot. No. (See product label)

Introduction

Description	L-4,5-Dihydroorotic Acid is a 99% pure chiral nitrogen-containing heterocyclic carboxylic acid associated with pyrimidine-related chemistry.
Applications	Pyrimidine compound research Biochemical pathway studies Heterocyclic derivative synthesis Stereochemical research
Synonyms	L-Dihydroorotic acid; L-Dihydroorotate acid

Product Information

Appearance	White to off-white crystalline powder
Form	Crystalline powder
CAS No.	5988-19-2
Molecular Formula	$C_5H_6N_2O_4$
Molecular Weight	158.114
Purity	99%
Structure	Chiral dihydropyrimidine-dione carboxylic acid
Composition	L-4,5-Dihydroorotic acid
Pathway	Pyrimidine biosynthesis-related research
Function	Heterocyclic carboxylic acid intermediate
Melting Point	254–255 °C (decomposition)
Boiling Point	283.16 °C (predicted)
Quality	Polar surface area: 95.65000 Å² LogP: −0.67330 Predicted pKa: 2.82 ± 0.20
Density	1.524 g/cm³
Grade	Research grade
Usage	For laboratory research and biochemical studies only.