

Product datasheet

L-Mimosine, non-protein amino acid ab145861

1 Image

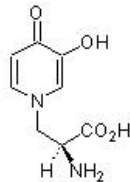
Overview

Product name	L-Mimosine, non-protein amino acid
Description	Non-protein amino acid that acts as an iron chelator.
Biological description	Toxic non-protein amino acid originally isolated from <i>Mimosa pudica</i> . Arrests the cell cycle at the G1 phase in PC-3 cells and at the S phase in LNCaP cells, thus attenuating cell proliferation. Blocks cell cycle progression by chelating iron in asynchronous MDA-MB-453 human breast cancer cells. Arrests DNA synthesis by inhibiting deoxyribonucleotide metabolism. Prolyl hydroxylase (PHD) inhibitor stimulating VEGF production, and increasing proangiogenic capacity in dental pulp-derived cells.

Purity > 98%

CAS Number 500-44-7

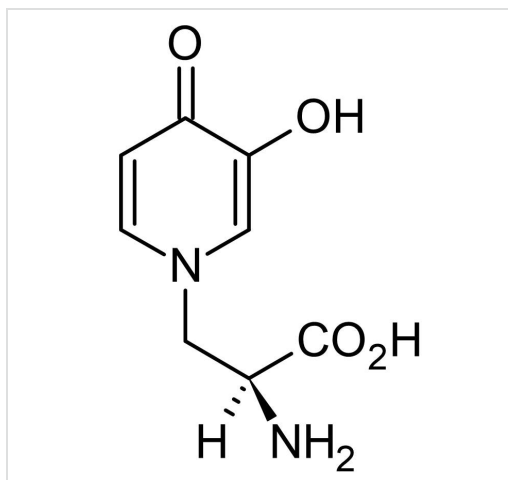
Chemical structure



Properties

Chemical name	(S)-2-Amino-3-(3-hydroxy-4-oxopyridin-1(4H)-yl)propanoic acid
Molecular weight	198.18
Molecular formula	C ₈ H ₁₀ N ₂ O ₄
Storage instructions	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
Handling	Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour. Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.
Source	Synthetic

Images



Chemical Structure - L-Mimosine, non-protein amino acid (ab145861)

2D chemical structure image of ab145861, L-Mimosine, non-protein amino acid

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