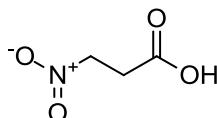


3-Nitropropionic acid

Code No.: **BIA-N1694**

Pack sizes: **1 mg, 5 mg**



Synonyms : Bovinocidin; Hiptagenic acid; 3-Nitropropanoic acid

Specifications

CAS #	: 504-88-1
Molecular Formula	: C₃H₅NO₄
Molecular Weight	: 119.1
Source	: Synthetic
Appearance	: White to off-white solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

3-Nitropropionic acid is a small molecular weight antibacterial compound isolated by Carter and McChesney in 1949. Since this time, 3-nitropropionic acid has been found in a large number of fungi, plants and bacteria. 3-Nitropropionic acid has been responsible for a number of instances of human and animal toxicity due to mouldy foodstuffs. Recently, 3-nitropropanoic acid has found use as a chemical tool for investigating various neurodegenerative disorders.

References

1. Hiptagenic acid identified as beta-nitropropionic acid. Carter C.L. and McChesney W.J., Nature 1949, 164, 575.
2. History of 3-nitropropionic acid. Occurrence and role in human and animal disease. Hamilton B.F. et al., in Mitochondrial inhibitors and neurodegenerative disorders contemporary neuroscience 2000, 21.