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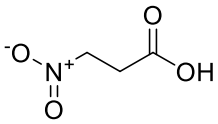
PRODUCT DATA SHEET

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	:	**$C_3H_5NO_4$**
Molecular Weight	:	**119.1**
Source	:	**Synthetic**
Appearance	:	**White to off-white solid**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in methanol, 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.

For in vitro laboratory use only. Not for human or animal use.

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