



Nalidixic Acid

Inhibitor of gram-negative bacteria

Instead of being a generic antibiotic (which can target other germs like fungi), nalidixic acid powder is a strong antibacterial agent.

Its selective activity makes it useful in microbiology. It works well against gram-negative bacteria but isn't as broad-spectrum as certain antibiotics. Because of its selectivity, it can be used to create culture conditions that suppress the growth of unwanted gram-positive bacteria while promoting the growth of desired gram-negative strains for more research.

Cat. Number	AS-2015
CAS Number	389-08-2
MDL Number	MFCD00006884
PubChem	310277428
Molecular Weight	232.24 g/mol
Molecular Formula	C ₁₂ H ₁₂ N ₂ O ₃
Storage Temperature	20°C
Form and Color	Powder, white to yellow
solubility	Soluble in dichloromethane, slightly soluble in ethanol and acetone.
Heavy metals	≤ 20ppm
Sulphated ash	≤ 0.1%
Loss on Drying	≤ 0.5% (105 °C)
Melting point	225 – 231 °C
FT-IR Spectrum	Corresponds to assigned spectrum.
¹ H-NMR	Min. 98%
Synonym	1,4-Dihydro-1-ethyl-7-methyl-1,8-naphthyridin-4-one-3-carboxylic acid