
Product Data Sheet

Product Name: 3-Hydroxypicolinic acid (Picolinic acid, 3-hydroxy- (6Cl,7Cl,8Cl))
 Cat. No.: GC30636

Chemical Properties

Cas. No. 874-24-8

SMILES O=C(C1=NC=CC=C1O)O

Formula $C_6H_5NO_3$

M.Wt 139.11

Solubility DMSO : 50 mg/mL (359.43 mM; ultrasonic and warming and heat to 60°C)

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

3-Hydroxypicolinic acid is a matrix substance in matrix-assisted laser desorption ionization mass spectrometry (MALDI-MS) applications that has been used in the analysis of oligonucleotides and proteins.^{1,2} It has also been used as a complexation agent for metal complexes.³ 3-Hydroxypicolinic acid is an intermediate in the biosynthesis of the antibiotic virginiamycin S₁.⁴

1. Nordhoff, E., Kirpekar, F., Karas, M., et al. Comparison of IR- and UV-matrix-assisted laser desorption/ionization mass spectrometry of oligodeoxynucleotides *Nucleic Acids Res.* 22(13)2460-2465(1994)
 2. Karas, M., Bahr, U., Strupat, K., et al. Matrix dependence of metastable fragmentation of glycoproteins in MALDI TOF mass spectrometry *Anal. Chem.* 67(3)675-679(1995)
 3. Kiss, E., Petrohán, K., Sanna, D., et al. Solution speciation and spectral studies on oxovanadium(IV) complexes of pyridinecarboxylic acids *Polyhedron* 19(1)55-61(2000)
 4. Reed, J.W., Purvis, M.B., Kingston, D.G.I., et al. Biosynthesis of antibiotics of the virginiamycin family. 7. Stereo- and regiochemical studies on the formation of the 3-hydroxypicolinic acid and pipercolic acid units *J. Org.*

Caution: Product has not been fully validated for medical applications. For research use only.

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