Data Sheet (Cat.No.TN6542)

TargetMol

Humic acid sodium salt

Chemical Properties

CAS No. : 68131-04-4

Formula: C9H8Na2O4

Molecular Weight: 226.14

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Humic acid sodium salt is a water-soluble salt formed by the combination of humic acid and sodium ions. It is rich in carboxyl and phenolic hydroxyl groups and possesses a variety of functional properties, including ion exchange, adsorption, complexation, chelation, flocculation, and redox reactions. It is widely used in soil improvement, environmental adsorption, and biostimulation-related research.
Targets(IC50)	Others
In vitro	Humic acid of high purity is used for the cathode plate expanders of lead storage battery, and also important materials of organic polymer synthesis. This invention relates to a method of extracting and purifying humic acid from low-grade coal. The process is divided into four steps: (1) using alk solution to extract humic acid from coal, adding flocculant, centrifuging to remove dregs to get Humic acid sodium salt, (2) under the meta acidity condition, adding complexing agent to remove high cation, (3) after acidification, using electrodialysis method to elute mineral salts and soluble in the colloidal system, (4) after drying, getting the humic acid powder with purity more than or equal to 95%.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.422 mL	22.1102 mL	44.2204 mL
5 mM	0.8844 mL	4.422 mL	8.8441 mL
10 mM	0.4422 mL	2.211 mL	4.422 mL
50 mM	0.0884 mL	0.4422 mL	0.8844 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Aji Pangestu AK, et al. Enhanced struvite production via membrane capacitive deionization and electrolysis: interference of humic acid and calcium. Environ Technol. 2025 Nov;46(27):5592-5607.

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