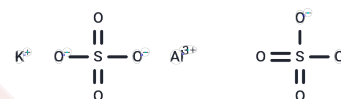


Aluminum potassium sulfate

Chemical Properties

CAS No. : 10043-67-1
 Formula: $\text{AlK}_2\text{O}_8\text{S}_2$
 Molecular Weight: 258.19
 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	Aluminum potassium sulfate (Potassium Aluminium Sulfate) is used in the study of severe acute respiratory syndrome and may be used in the prevention and treatment of cancer.
Targets(IC50)	Others
In vivo	Aluminum potassium sulfate (APS) 1 g.kg ⁻¹ .d ⁻¹ for 60 d induced learning and memory deficits in mice. APS 1 g.kg ⁻¹ increased blood-Al only after 30 d. After 60 d, STL, ACh content and ChAT activity decreased by 46.4%, 8.5%, and 22.6%, respectively. These parameters decreased by 50%, 11.1%, and 27.8%, respectively, with increased Al in blood and brain, after 90 d.[2] In ethylcholine mustard aziridium chloride (AF64A) treated mice, APS 1 g.kg ⁻¹ only increased blood and brain-Al.[2]

Solubility Information

Solubility	H ₂ O: 11.9 mg/mL (46.09 mM),Sonication is recommended. DMSO: < 1 mg/mL (insoluble or slightly soluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.8731 mL	19.3656 mL	38.7312 mL
5 mM	0.7746 mL	3.8731 mL	7.7462 mL
10 mM	0.3873 mL	1.9366 mL	3.8731 mL
50 mM	0.0775 mL	0.3873 mL	0.7746 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

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