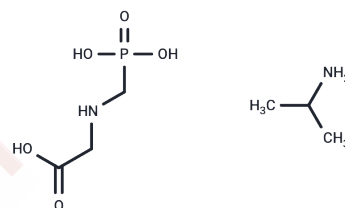


Glyphosate isopropylammonium

Chemical Properties

CAS No. :	38641-94-0
Formula:	C ₆ H ₁₇ N ₂ O ₅ P
Molecular Weight:	228.18
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	Glyphosate isopropylammonium is a broad-spectrum, non-selective systemic biocide derived from the amino acid glycine. It inhibits the enzyme activity of 5-enolpyruvylshikimate-3-phosphate synthase (EPSPS) in the shikimate pathway, blocking the synthesis of aromatic amino acids tyrosine, phenylalanine, and tryptophan. Additionally, Glyphosate isopropylammonium induces oxidative stress, neuroinflammation, and mitochondrial dysfunction, leading to neuronal death through autophagy, necrosis, or apoptosis, resulting in behavioral and motor disturbances.
Targets(IC50)	Apoptosis, Autophagy, Necroptosis
In vitro	Glyphosate isopropylammonium interferes with the maturation of mouse oocytes by inducing oxidative stress and early apoptosis. Additionally, it triggers early apoptosis and autophagy in these oocytes.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.3825 mL	21.9125 mL	43.8251 mL
5 mM	0.8765 mL	4.3825 mL	8.765 mL
10 mM	0.4383 mL	2.1913 mL	4.3825 mL
50 mM	0.0877 mL	0.4383 mL	0.8765 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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