

Glyphosate-13C2-15N

Chemical Properties

CAS No. :	1185107-63-4
Formula:	C3H8NO5P
Molecular Weight:	172.05
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	Glyphosate-13C2-15N is the 13C and 15N labeled isotopic form of Glyphosate (CAS: 1071-83-6). Glyphosate (CAS: 1071-83-6) is an herbicide and has been classified as a possible carcinogen to humans. Glyphosate-13C2-15N is utilized in environmental and toxicological research focused on herbicide fate tracking, isotope tracing of exposure pathways, and analytical quantification of glyphosate metabolism in biological and ecological systems.
Targets(IC50)	Others

Solubility Information

Solubility	H2O: 11 mg/mL (63.93 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.8123 mL	29.0613 mL	58.1226 mL
5 mM	1.1625 mL	5.8123 mL	11.6245 mL
10 mM	0.5812 mL	2.9061 mL	5.8123 mL
50 mM	0.1162 mL	0.5812 mL	1.1625 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

Greim H, et al. Evaluation of carcinogenic potential of the herbicide glyphosate, drawing on tumor incidence data from fourteen chronic/carcinogenicity rodent studies. Crit Rev Toxicol.2015;45(3):185-208.

Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.

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