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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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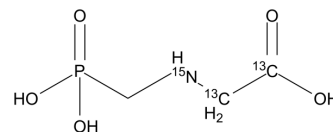
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Glyphosate-¹³C₂, ¹⁵N

Cat. No.:	HY-B0863S3
CAS No.:	1185107-63-4
Molecular Formula:	C ¹³ ₂ H ₈ ¹⁵ NO ₅ P
Molecular Weight:	172.05
Target:	Isotope-Labeled Compounds; Necroptosis; Apoptosis; Autophagy
Pathway:	Others; Apoptosis; Autophagy
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

H₂O : 13.89 mg/mL (80.73 mM; Need ultrasonic and warming)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	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

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Glyphosate-¹³C₂, ¹⁵N is the ¹³C and ¹⁵N labeled Glyphosate (HY-B0863). Glyphosate is an herbicidal derivative of the amino acid glycine. Glyphosate targets and blocks a plant metabolic pathway not found in animals, the shikimate pathway, required for the synthesis of aromatic amino acids in plants^[1].

In Vitro

Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. 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.

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

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