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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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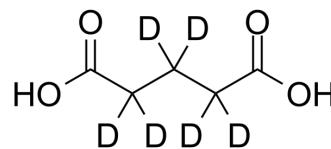
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Glutaric acid-d₆

Cat. No.:	HY-W008820S		
CAS No.:	154184-99-3		
Molecular Formula:	C ₅ H ₂ D ₆ O ₄		
Molecular Weight:	138.15		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (904.81 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	7.2385 mL	36.1925 mL	72.3851 mL
		5 mM	1.4477 mL	7.2385 mL	14.4770 mL
10 mM		0.7239 mL	3.6193 mL	7.2385 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (15.06 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (15.06 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (15.06 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Glutaric acid-d ₆ is the deuterium labeled Glutaric acid. Glutaric acid is an intermediate during the catabolic pathways of lysine and tryptophan. Glutaric acid affects pericyte contractility and migration. Glutaric acid is an indicator of glutaric aciduria type I[1][2][3].
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 ^[1] .

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

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.
- [2]. Yang SY, et, al. Production of glutaric acid from 5-aminovaleric acid by robust whole-cell immobilized with polyvinyl alcohol and polyethylene glycol. *Enzyme Microb Technol.* 2019 Sep;128:72-78.
- [3]. Boy N, et, al. Proposed recommendations for diagnosing and managing individuals with glutaric aciduria type I: second revision. *J Inherit Metab Dis.* 2017 Jan;40(1):75-101.
- [4]. Isasi E, et, al. Glutaric Acid Affects Pericyte Contractility and Migration: Possible Implications for GA-I Pathogenesis. *Mol Neurobiol.* 2019 Nov;56(11):7694-7707.
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Caution: Product has not been fully validated for medical applications. For research use only.

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