DL-Alanine-d₃

Cat. No.:	HY-N2362S2	2		
CAS No.:	53795-94-1			
Molecular Formula:	$C_{3}H_{4}D_{3}NO_{2}$			
Molecular Weight:	92.11			
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	

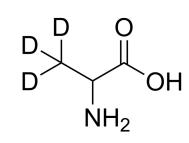
SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	Preparing Stock Solutions	1 mM	10.8566 mL	54.2829 mL	108.5658 mL
	5 mM	2.1713 mL	10.8566 mL	21.7132 mL	
		10 mM	1.0857 mL	5.4283 mL	10.8566 mL

BIOLOGICAL ACTIVITY			
Description	DL-Alanine-d ₃ is the deuterium labeled DL-Alanine. DL-alanine, an amino acid, is the racemic compound of L- and D-alanine. DL-alanine is employed both as a reducing and a capping agent, used with silver nitrate aqueous solutions for the production of nanoparticles. DL-alanine can be used for the research of transition metals chelation, such as Cu(II), Zn(II), Cd(11). DL-alanine, a sweetener, is classed together with glycine, and sodium saccharin. DL-alanine plays a key role in the glucose-alanine cycle between tissues and liver[1][2][3][4][5][6].		
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

Product Data Sheet





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

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