

Product Datasheet

L-Lactic acid (orb1302516)

Catalog Number	orb1302516
Category	Small Molecules
Description	L-Lactic acid, the (S)-enantiomer of 2-hydroxypropanoic acid, is a key metabolite generated from pyruvate during anaerobic glycolysis. It serves as a critical biomarker for tissue hypoxia and hemodynamic status in critical care research, with applications in studying cellular metabolism, ischemia-reperfusion injury, and metabolic phenotyping in both in vitro and in vivo models.
Target	Endogenous Metabolite,Antibacterial,Antibiotic
Purity	99.85% (May vary between batches)
MW	90.08
Target Areas	Antibiotic Antibacterial Endogenous Metabolite
Solubility (25°C)	10% DMSO+90% Saline:5 mg/mL (55.51 mM);5% DMSO+95% Saline:2.63 mg/mL (29.2 mM);DMSO:262 mg/mL (2908.53 mM);Saline:50 mg/mL (555.06 mM)
CAS Number	79-33-4
Formula	C ₃ H ₆ O ₃
SMILES	[C@@H](C(O)=O)CO
Storage	store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year Shipping with blue ice/Shipping at ambient temperature.
Note	For research use only
Expiration Date	12 months from date of receipt.

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