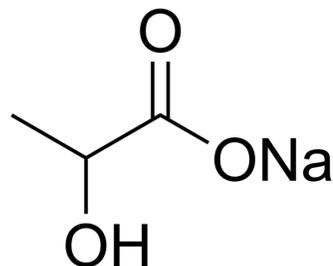


Lactate sodium

Cat. No.:	HY-B2227B
CAS No.:	72-17-3
Molecular Formula:	C ₃ H ₅ NaO ₃
Molecular Weight:	112.06
Target:	Others
Pathway:	Others
Storage:	Solution, -20°C, 2 years



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : ≥ 150 mg/mL (1338.57 mM)
	DMSO : ≥ 100 mg/mL (892.38 mM)

* "≥" means soluble, but saturation unknown.

BIOLOGICAL ACTIVITY

Description	Lactate (Lactic acid) sodium is the product of glycogenolysis and glycolysis ^[1] . Lactate (Lactic acid) sodium is an organic salt that is mainly used as a buffer and pH adjuster for injection solutions. Lactate sodium can be metabolized by the body into sodium bicarbonate, which in turn acts to increase the pH of the blood. Lactate sodium is used to improve metabolic acidosis and hypovolemic states. In terms of pharmaceutical preparations, Lactate sodium is often used in combination with sodium chloride, glucose, etc. to form normal saline or compound liquid intravenous injection ^{[2][3][4][5]} . Lactate sodium also has antimicrobial activity, which can be used as a food preservative ^[6] .
In Vitro	Hypertonic Lactate sodium solution improved cognitive function in rats with traumatic brain injury (TBI). Hyperlactate sodium solution also decreased intracranial pressure (ICP) and increased cerebral blood flow by arteriole dilation ^{[2][3]} . Lactate sodium inhibits the proliferation of various decrepit microorganisms, including aerobic and chillophilic bacteria, pseudomonas, lactic acid bacteria and Enterobacteriaceae ^[6] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Cell Res. 2023 Jul 13.
- J Ginseng Res. 2023 Dec 27.

See more customer validations on www.MedChemExpress.com

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

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