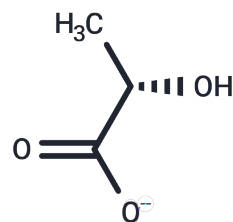


L-Lactate ion

Chemical Properties

| | |
|-------------------|--|
| CAS No. : | 72-08-2 |
| Formula: | C ₃ H ₅ O ₃ |
| Molecular Weight: | 89.07 |
| Storage: | Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small> |



Biological Description

| | |
|---------------|---|
| Description | L-Lactate ion is the conjugate base of lactic acid. |
| Targets(IC50) | Others |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|------------|------------|-------------|
| 1 mM | 11.2271 mL | 56.1356 mL | 112.2712 mL |
| 5 mM | 2.2454 mL | 11.2271 mL | 22.4542 mL |
| 10 mM | 1.1227 mL | 5.6136 mL | 11.2271 mL |
| 50 mM | 0.2245 mL | 1.1227 mL | 2.2454 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Zelenka J, Dvořák A, Alán L. L-Lactate Protects Skin Fibroblasts against Aging-Associated Mitochondrial Dysfunction via Mitohormesis. *Oxid Med Cell Longev*. 2015;2015:351698. doi: 10.1155/2015/351698. Epub 2015 Jun 10. PubMed PMID: 26171114; PubMed Central PMCID: PMC4478408.
- Gao C, Wang Y, Zhang Y, Lv M, Dou P, Xu P, Ma C. NAD-Independent L-Lactate Dehydrogenase Required for L-Lactate Utilization in *Pseudomonas stutzeri* A1501. *J Bacteriol*. 2015 Jul;197(13):2239-47. doi: 10.1128/JB.00017-15. Epub 2015 Apr 27. PubMed PMID: 25917905; PubMed Central PMCID: PMC4455268.
- Mayeur C, Gratadoux JJ, Bridonneau C, Chegdani F, Larroque B, Kapel N, Corcos O, Thomas M, Joly F. Faecal D/L lactate ratio is a metabolic signature of microbiota imbalance in patients with short bowel syndrome. *PLoS One*. 2013;8(1):e54335. doi: 10.1371/journal.pone.0054335. Epub 2013 Jan 23. PubMed PMID: 23372709; PubMed Central PMCID: PMC3553129.
- Azzouzi S, Rotariu L, Benito AM, Maser WK, Ben Ali M, Bala C. A novel amperometric biosensor based on gold nanoparticles anchored on reduced graphene oxide for sensitive detection of l-lactate tumor biomarker. *Biosens Bioelectron*. 2015 Jul 15;69:280-6. doi: 10.1016/j.bios.2015.03.012. Epub 2015 Mar 7. PubMed PMID: 25771300.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481