

## Levolansoprazole

## Chemical Properties

CAS No. : 138530-95-7

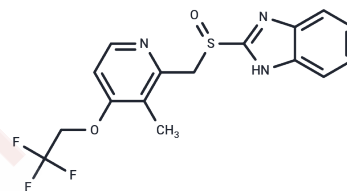
Formula: C<sub>16</sub>H<sub>14</sub>F<sub>3</sub>N<sub>3</sub>O<sub>2</sub>S

Molecular Weight: 369.36

Storage: Keep away from direct sunlight, Store under nitrogen,  
Store at low temperature

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Levolansoprazole ((S)-Lansoprazole), a proton pump inhibitor, irreversibly inhibits H <sup>+</sup> /K <sup>+</sup> -stimulated ATPase pumps in parietal cells (IC <sub>50</sub> : 5.2 μM). It also inhibits acid formation in isolated canine parietal cells (IC <sub>50</sub> : 82 μM). Both (R)- and (S)-lansoprazole are pharmacologically active with similar potencies.
Targets(IC <sub>50</sub> )	Proton pump, Antibacterial, Phospholipase

## Solubility Information

Solubility	DMSO: 55 mg/mL (148.91 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7074 mL	13.5369 mL	27.0739 mL
5 mM	0.5415 mL	2.7074 mL	5.4148 mL
10 mM	0.2707 mL	1.3537 mL	2.7074 mL
50 mM	0.0541 mL	0.2707 mL	0.5415 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

Gellad WF, Choi P, Mizah M, Good CB, Kesselheim AS. Assessing the chiral switch: approval and use of single-enantiomer drugs, 2001 to 2011. *Am J Manag Care*. 2014 Mar 1;20(3):e90-7. PubMed PMID: 24773330.

Cao Z, Chen Q, Zhang W, Liang X, Liao J, Liu W, Xiao S, Lu H. Fourteen-day optimized levofloxacin-based therapy versus classical quadruple therapy for *Helicobacter pylori* treatment failures: a randomized clinical trial. *Scand J Gastroenterol*. 2015;50(10):1185-90. doi: 10.3109/00365521.2015.1037345. Epub 2015 Apr 16. PubMed PMID: 25881966.

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