

## Levolansoprazole-D4

## Chemical Properties

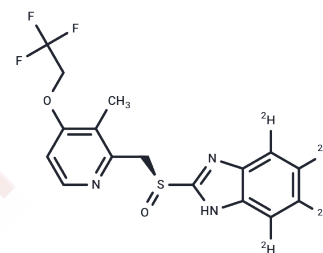
CAS No. :

Formula: C<sub>16</sub>H<sub>10</sub>D<sub>4</sub>F<sub>3</sub>N<sub>3</sub>O<sub>2</sub>S

Molecular Weight: 373.39

Storage: 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-D4 is a deuterated compound of Levolsoprazole. Levolsoprazole (T20714) has a CAS number of 138530-95-7. Levolsoprazole, 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.
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6782 mL	13.3908 mL	26.7816 mL
5 mM	0.5356 mL	2.6782 mL	5.3563 mL
10 mM	0.2678 mL	1.3391 mL	2.6782 mL
50 mM	0.0536 mL	0.2678 mL	0.5356 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.

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