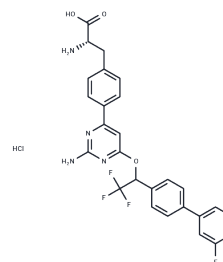


## LP-533401 hydrochloride

## Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 1040526-12-2  |
| Formula:          | C <sub>27</sub> H <sub>23</sub> ClF <sub>4</sub> N <sub>4</sub> O <sub>3</sub>  |
| Molecular Weight: | 562.94  |
| Storage:          | Keep away from moisture<br>Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br><i>Actual storage temperature shall be subject to the COA.</i> |



## Biological Description

|               |   |
|---------------|---|
| Description   | LP-533401 hydrochloride is a peripheral Tph inhibitor that cannot cross the blood-brain barrier that inhibits 5-hydroxytryptamine synthesis and can be used to study periodontal disease and hepatic steatosis. |
| Targets(IC50) | 5-HT Receptor,Hydroxylase   |
| In vitro      | LP-533401 hydrochloride (0.1-1 μM; 3 days) completely inhibited serotonin production in RBL2H3 cells.   |
| In vivo       | LP-533401 hydrochloride (250, 100, 10 mg/kg) prevented and rescued ovariectomized mice from osteoporosis [1].   |

## Solubility Information

|                     |  |
|---------------------|--|
| Solubility          | DMSO: 15 mg/mL (26.65 mM),Sonification is recommended.<br>H <sub>2</sub> O: < 0.1 mg/mL (insoluble)<br>(< 1 mg/ml refers to the product slightly soluble or insoluble)   |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (3.55 mM),Sonication is recommended.<br><i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i> |

### Preparing Stock Solutions

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|       | 1mg       | 5mg       | 10mg       |
|-------|-----------|-----------|------------|
| 1 mM  | 1.7764 mL | 8.8819 mL | 17.7639 mL |
| 5 mM  | 0.3553 mL | 1.7764 mL | 3.5528 mL  |
| 10 mM | 0.1776 mL | 0.8882 mL | 1.7764 mL  |
| 50 mM | 0.0355 mL | 0.1776 mL | 0.3553 mL  |

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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

Yadav, V.K., et al. Inhibition of gut-derived serotonin synthesis: A potential bone anabolic treatment. *Nat. Med.* 16 (3), 308-312 (2010).

Abid S, et al. Inhibition of gut- and lung-derived serotonin attenuates pulmonary hypertension in mice. *Am J Physiol Lung Cell Mol Physiol.* 2012 Sep 15;303(6):L500-8.

Krevvata M, et al. Inhibition of leukemia cell engraftment and disease progression in mice by osteoblasts. *Blood.* 2014 Oct 30;124(18):2834-46.

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