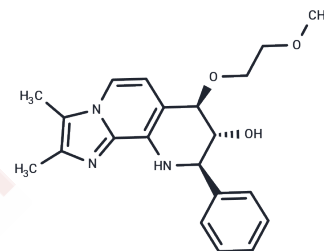


## Soraprazan

## Chemical Properties

|                   |                                                                                     |
|-------------------|-------------------------------------------------------------------------------------|
| CAS No. :         | 261944-46-1                                                                         |
| Formula:          | C <sub>21</sub> H <sub>25</sub> N <sub>3</sub> O <sub>3</sub>                       |
| Molecular Weight: | 367.44                                                                              |
| Appearance:       | no data available                                                                   |
| Storage:          | keep away from moisture<br>Powder: -20°C for 3 years   In solvent: -80°C for 1 year |



## Biological Description

|               |                                                                                                                                                                                                                                                                                                                                  |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description   | Soraprazan (BYK61359) is a selective potassium channel inhibitor that inhibits gastric acid secretion and ameliorates age-related eye disease by removing lipofuscin from retinal pigment epithelial (RPE) cells.                                                                                                                |
| Targets(IC50) | Sodium Channel                                                                                                                                                                                                                                                                                                                   |
| In vitro      | Soraprazan is a potent inhibitor of gastric H,K-ATPase, with an IC <sub>50</sub> value of 0.1 $\mu$ M in the presence of 1 mM potassium ions in ion-loss vesicles, and inhibits dibutyryl cyclic AMP-stimulated [ <sup>14</sup> C]AP accumulation in isolated gastric glands with an IC <sub>50</sub> value of 0.19 $\mu$ M. [1] |
| In vivo       | Soraprazan 1-27 $\mu$ mol/kg administered orally showed rapid and stable inhibition of acid secretion in dogs.[1]                                                                                                                                                                                                                |

## Solubility Information

|            |                                                                                                                           |
|------------|---------------------------------------------------------------------------------------------------------------------------|
| Solubility | DMSO: 80 mg/mL (217.72 mM), Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---------------------------------------------------------------------------------------------------------------------------|

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.7215 mL | 13.6077 mL | 27.2153 mL |
| 5 mM  | 0.5443 mL | 2.7215 mL  | 5.4431 mL  |
| 10 mM | 0.2722 mL | 1.3608 mL  | 2.7215 mL  |
| 50 mM | 0.0544 mL | 0.2722 mL  | 0.5443 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.

Reference

Simon WA, et al. Soraprazan: setting new standards in inhibition of gastric acid secretion. J Pharmacol Exp Ther. 2007 Jun;321(3):866-74.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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Tel:781-999-4286    E\_mail:info@targetmol.com    Address:36 Washington Street,Wellesley Hills,MA 02481