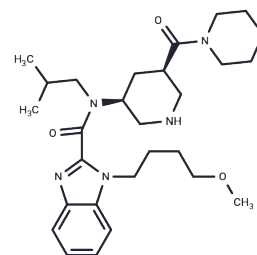


## Imarikiren

## Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 1202265-63-1  |
| Formula:          | C <sub>27</sub> H <sub>41</sub> N <sub>5</sub> O <sub>4</sub>   |
| Molecular Weight: | 499.65  |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br>Actual storage temperature shall be subject to the COA. |



## Biological Description

|             |  |
|-------------|--|
| Description | Imarikiren (also known as TAK-272) is a potent, highly selective, orally bioavailable direct renin inhibitor primarily used for treating diabetic nephropathy. In hPRA assays, TAK-272 exhibits strong inhibitory activity against human renin (IC <sub>50</sub> = 2.1 nM) and demonstrates excellent selectivity over other aspartic proteases such as pepsin (IC <sub>50</sub> > 10 μM) and cathepsin D (IC <sub>50</sub> > 10 μM). In rats, TAK-272 shows significantly improved pharmacokinetic properties (F = 25.2%) and, upon oral administration (3 and 10 mg/kg), exhibits a dose-dependent, potent, and sustained antihypertensive effect. Currently, TAK-272 HCl is undergoing human clinical trials. |
|-------------|--|

## Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg      |
|-------|-----------|-----------|-----------|
| 1 mM  | 2.0014 mL | 10.007 mL | 20.014 mL |
| 5 mM  | 0.4003 mL | 2.0014 mL | 4.0028 mL |
| 10 mM | 0.2001 mL | 1.0007 mL | 2.0014 mL |
| 50 mM | 0.040 mL  | 0.2001 mL | 0.4003 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

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