

$\alpha$ 5 $\beta$ 1 integrin-IN-1

## Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 2649899-08-9  |
| Formula:          | C <sub>29</sub> H <sub>27</sub> Cl <sub>2</sub> FN <sub>6</sub> O <sub>5</sub>                                      |
| Molecular Weight: | 629.47  |
| 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                | $\alpha$ 5 $\beta$ 1 integrin-IN-1 (compound 65) is a potent and selective $\alpha$ 5 $\beta$ 1 integrin inhibitor with a pIC <sub>50</sub> of 9.4. Its selectivity for $\alpha$ 5 $\beta$ 1 is over 10,000 times greater than for $\alpha$ V $\beta$ 3 (pIC <sub>50</sub> of 5.5). This compound reduces airway smooth muscle (ASM) tension by disrupting intercellular connections. In rodents, $\alpha$ 5 $\beta$ 1 integrin-IN-1 demonstrates excellent inhalation pharmacokinetic properties and is applicable in asthma research. |
| Targets(IC <sub>50</sub> ) | Integrin  |

## Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg       |
|-------|-----------|-----------|------------|
| 1 mM  | 1.5886 mL | 7.9432 mL | 15.8864 mL |
| 5 mM  | 0.3177 mL | 1.5886 mL | 3.1773 mL  |
| 10 mM | 0.1589 mL | 0.7943 mL | 1.5886 mL  |
| 50 mM | 0.0318 mL | 0.1589 mL | 0.3177 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**

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