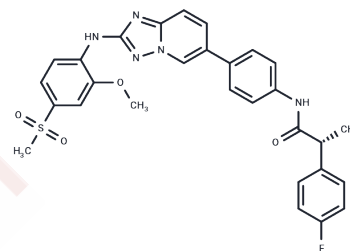


## Empesertib

## Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 1443763-60-7  |
| Formula:          | C <sub>29</sub> H <sub>26</sub> FN <sub>5</sub> O <sub>4</sub> S  |
| Molecular Weight: | 559.61  |
| 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                | Empesertib (BAY 1161909) is an orally bioavailable and selective inhibitor Mps1 (IC <sub>50</sub> < 1 nM), with potential antineoplastic activity. |
| Targets(IC <sub>50</sub> ) | Kinesin  |

## Solubility Information

|                     |   |
|---------------------|---|
| Solubility          | DMSO: 10 mg/mL (17.87 mM), Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble)  |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (1.79 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

|       | 1mg       | 5mg       | 10mg       |
|-------|-----------|-----------|------------|
| 1 mM  | 1.787 mL  | 8.9348 mL | 17.8696 mL |
| 5 mM  | 0.3574 mL | 1.787 mL  | 3.5739 mL  |
| 10 mM | 0.1787 mL | 0.8935 mL | 1.787 mL   |
| 50 mM | 0.0357 mL | 0.1787 mL | 0.3574 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

SCHULZE, Volker, et al. PRODRUG DERIVATIVES OF SUBSTITUTED TRIAZOLOPYRIDINES. WO2014198647A2

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

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