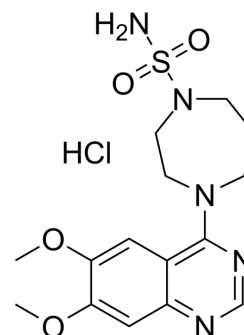


## Enpp-1-IN-14

|                           |   |       |          |
|---------------------------|---|-------|----------|
| <b>Cat. No.:</b>          | HY-147389   |       |          |
| <b>CAS No.:</b>           | 2687222-59-7  |       |          |
| <b>Molecular Formula:</b> | C <sub>15</sub> H <sub>22</sub> ClN <sub>5</sub> O <sub>4</sub> S |       |          |
| <b>Molecular Weight:</b>  | 403.88  |       |          |
| <b>Target:</b>            | Phosphodiesterase (PDE)   |       |          |
| <b>Pathway:</b>           | Metabolic Enzyme/Protease   |       |          |
| <b>Storage:</b>           | Powder  | -20°C | 3 years  |
|                           |   | 4°C   | 2 years  |
|                           | In solvent  | -80°C | 6 months |
|                           |   | -20°C | 1 month  |



### SOLVENT & SOLUBILITY

|   |   |                          |           |           |            |            |
|---|---|--------------------------|-----------|-----------|------------|------------|
| <b>In Vitro</b>   | DMSO : 9.62 mg/mL (23.82 mM; Need ultrasonic)   |                          |           |           |            |            |
|   |   | Solvent<br>Concentration | Mass      | 1 mg      | 5 mg       | 10 mg      |
|   | <b>Preparing Stock Solutions</b>  | 1 mM                     |           | 2.4760 mL | 12.3799 mL | 24.7598 mL |
|   |   | 5 mM                     |           | 0.4952 mL | 2.4760 mL  | 4.9520 mL  |
| 10 mM   |   |                          | 0.2476 mL | 1.2380 mL | 2.4760 mL  |            |
| Please refer to the solubility information to select the appropriate solvent. |   |                          |           |           |            |            |
| <b>In Vivo</b>  | 1. Add each solvent one by one: 50% PEG300 >> 50% saline<br>Solubility: 10 mg/mL (24.76 mM); Suspended solution; Need ultrasonic and warming and heat to 42°C |                          |           |           |            |            |

### BIOLOGICAL ACTIVITY

|                                     |   |  |
|-------------------------------------|---|--|
| <b>Description</b>                  | Enpp-1-IN-14 (Compound 015) is a potent Ectonucleotide Pyrophosphatase/Phosphodiesterase-1 (ENPP1) inhibitor with an IC <sub>50</sub> value of 32.38 nM for recombinant human ENPP-1. Enpp-1-IN-14 has anti-tumor activity <sup>[1]</sup> . |  |
| <b>IC<sub>50</sub> &amp; Target</b> | IC <sub>50</sub> : 32.38 nM (recombinant human ENPP-1) <sup>[1]</sup>   |  |
| <b>In Vivo</b>                      | Enpp-1-IN-14 (compound 015) (50 mg/kg; IP; BID, for 31 days) significantly inhibits tumor growth <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.                           |  |
|                                     | <b>Animal Model:</b>  | Female C57BL/6 mice (4-6 weeks; implanted subcutaneously with 2×10 <sup>5</sup> MC38 cells) <sup>[1]</sup> |
|                                     | <b>Dosage:</b>  | 50 mg/kg   |

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|                 |   |
|-----------------|---|
| Administration: | IP; BID, for 31 days (given a single 10 Gy exposure of focal radiation to the tumor site) |
| Result:         | Significantly inhibited tumor growth.   |

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## REFERENCES

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[1]. Srinivas Rao Kasibhatla, et al. Inhibitors of ectonucleotide pyrophosphatase/phosphodiesterase 1 (enpp1) and methods of use thereof. WO2021158829A1.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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