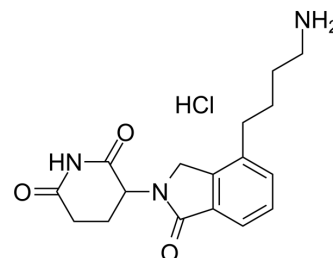


## Lenalidomide-C4-NH<sub>2</sub> hydrochloride

|                    |                                                                                                                                |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Cat. No.:          | HY-115446A                                                                                                                     |
| CAS No.:           | 2435715-90-3                                                                                                                   |
| Molecular Formula: | C <sub>17</sub> H <sub>22</sub> ClN <sub>3</sub> O <sub>3</sub>                                                                |
| Molecular Weight:  | 351.83                                                                                                                         |
| Target:            | E3 Ligase Ligand-Linker Conjugates                                                                                             |
| Pathway:           | PROTAC                                                                                                                         |
| Storage:           | 4°C, sealed storage, away from moisture<br>* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture) |



### SOLVENT & SOLUBILITY

|                                                                               |                                                                                                                                           |                          |      |           |           |            |            |
|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------|-----------|-----------|------------|------------|
| In Vitro                                                                      | DMSO : 130 mg/mL (369.50 mM; Need ultrasonic)                                                                                             |                          |      |           |           |            |            |
|                                                                               | H <sub>2</sub> O : 100 mg/mL (284.23 mM; Need ultrasonic)                                                                                 |                          |      |           |           |            |            |
|                                                                               | Preparing Stock Solutions                                                                                                                 | Solvent<br>Concentration | Mass | 1 mg      | 5 mg      | 10 mg      |            |
|                                                                               |                                                                                                                                           |                          |      | 1 mM      | 2.8423 mL | 14.2114 mL | 28.4228 mL |
|                                                                               |                                                                                                                                           |                          |      | 5 mM      | 0.5685 mL | 2.8423 mL  | 5.6846 mL  |
| 10 mM                                                                         |                                                                                                                                           |                          |      | 0.2842 mL | 1.4211 mL | 2.8423 mL  |            |
| Please refer to the solubility information to select the appropriate solvent. |                                                                                                                                           |                          |      |           |           |            |            |
| In Vivo                                                                       | 1. Add each solvent one by one: PBS<br>Solubility: 50 mg/mL (142.11 mM); Clear solution; Need ultrasonic                                  |                          |      |           |           |            |            |
|                                                                               | 2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline<br>Solubility: ≥ 2.17 mg/mL (6.17 mM); Clear solution |                          |      |           |           |            |            |
|                                                                               | 3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)<br>Solubility: ≥ 2.17 mg/mL (6.17 mM); Clear solution            |                          |      |           |           |            |            |

### BIOLOGICAL ACTIVITY

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description               | Lenalidomide-C4-NH <sub>2</sub> hydrochloride is the Lenalidomide-based Cereblon ligand used in the recruitment of CRBN protein. Lenalidomide-C4-NH <sub>2</sub> hydrochloride can be connected to the ligand for protein by a linker to form PROTAC (Compound 24), which has IC <sub>50</sub> s of 0.98 nM and 13.7 nM in inhibition of RS4;11 and MOLM-13 acute leukemia cell lines growth, respectively <sup>[1]</sup> . |
| IC <sub>50</sub> & Target | Cereblon                                                                                                                                                                                                                                                                                                                                                                                                                    |

### REFERENCES

---

[1]. Zhou B, et al. Discovery of a Small-Molecule Degradator of Bromodomain and Extra-Terminal (BET) Proteins with Picomolar Cellular Potencies and Capable of Achieving Tumor Regression. J Med Chem. 2018 Jan 25;61(2):462-481.

---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA