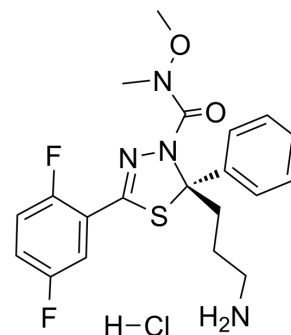


## Filanesib hydrochloride

|                           |   |
|---------------------------|---|
| <b>Cat. No.:</b>          | HY-15187C   |
| <b>CAS No.:</b>           | 1385020-40-5  |
| <b>Molecular Formula:</b> | C <sub>20</sub> H <sub>23</sub> ClF <sub>2</sub> N <sub>4</sub> O <sub>2</sub> S          |
| <b>Molecular Weight:</b>  | 456.94  |
| <b>Target:</b>            | Kinesin; Apoptosis  |
| <b>Pathway:</b>           | Cell Cycle/DNA Damage; Cytoskeleton; Apoptosis  |
| <b>Storage:</b>           | Please store the product under the recommended conditions in the Certificate of Analysis. |



### BIOLOGICAL ACTIVITY

|                                     |   |
|-------------------------------------|---|
| <b>Description</b>                  | Filanesib (ARRY-520) hydrochloride is a selective and noncompetitive kinesin spindle protein (KSP) inhibitor, with an IC <sub>50</sub> of 6 nM for human KSP. Filanesib induces cell death by apoptosis in vitro. Filanesib has potent anti-proliferative activity <sup>[1][2][3]</sup> . |
| <b>IC<sub>50</sub> &amp; Target</b> | IC <sub>50</sub> : 6 nM (KSP) <sup>[1]</sup> .  |

### CUSTOMER VALIDATION

- Cell Discov. 2022 Sep 14;8(1):92.
- Cancer Lett. 2021 Feb 27.
- Preprints. 2023 Sep 30.
- Methods Mol Biol. 2018;1711:351-398.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

### REFERENCES

- [1]. BZ Carter, et al. Inhibition of KSP by ARRY-520 Induces Cell Cycle Block and Cell Death via the Mitochondrial Pathway in AML Cells.
- [2]. Ki Hyung Kim, et al. KSP inhibitor ARRY-520 as a substitute for Paclitaxel in Type I ovarian cancer cells. J Transl Med. 2009; 7: 63.
- [3]. Christine Lemieux, et al. ARRY-520, a Novel, Highly Selective KSP Inhibitor with Potent Anti-Proliferative Activity. AACR Annual Meeting. 2007.

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

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