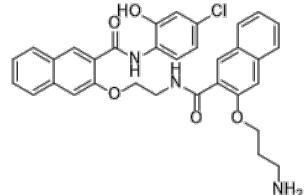


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<b>Product Name</b>	: Dual SLC25A51 and SDHA inhibitor 615
<b>Cat. No.</b>	: PC-26023
<b>CAS No.</b>	: 1433286-57-7
<b>Molecular Formula</b>	: C <sub>33</sub> H <sub>30</sub> CIN <sub>3</sub> O <sub>5</sub>
<b>Molecular Weight</b>	: 584.07
<b>Target</b>	: Ras
<b>Solubility</b>	: 10 mM in DMSO



CAS: 1433286-57-7

## Biological Activity

Dual SLC25A51 and SDHA inhibitor 615 is a specific small molecule dual inhibitor of SLC25A51 and succinate dehydrogenase (SDH) subunit SDHA, selectively kills KRAS-mutated cells.

615 is a highly selective agent that effectively kills iKRAS cells under both unstressed and Gal-stressed conditions.

615 demonstrates the broad efficacy and selectivity of 615 across KRAS-mutated cell types, including NOMO-1 cells, NH-KRAS cells, KRAS-mutated AML patient samples, and KRAS-mutated solid tumor cells.

615 exerts its cytotoxic effects through mechanisms distinct from direct KRAS inhibition.

615 significantly reduced the in vivo engraftment of iKRAS cells, NOMO-1 cells, NH-KRAS cells.

615 (12.5 mg/kg intraperitoneally) prolonged the survival of KRAS-mutated leukemic mice.

615 binds to SDHA and impairs its enzymatic function, reduces OXPHOS via binding to SDHA, contributing to its selective toxicity toward KRAS-mutated cells.

615 selectively depletes mito NAD<sup>+</sup> in KRAS-mutated cells via inhibiting SLC25A51.

615 directly binds to SLC25A51 (MST KD=0.344 uM) to inhibit mito NAD<sup>+</sup> import.

## References

Jia A, et al. Cell Metab. 2026 Jan 29:S1550-4131(26)00001-X.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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