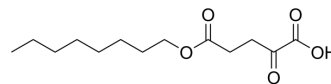


## 5-Octyl- $\alpha$ -ketoglutarate

Cat. No.:	HY-145452
CAS No.:	1616344-00-3
Molecular Formula:	C <sub>13</sub> H <sub>22</sub> O <sub>5</sub>
Molecular Weight:	258.31
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

5-Octyl- $\alpha$ -ketoglutarate (5-Octyl 2-oxopentanedioate) is a cell-permeable substrate for lysine demethylase. 5-Octyl- $\alpha$ -ketoglutarate is related to protein demethylation, inhibits cell proliferation of wtCRBN expressing cells, and also enhances Lenalidomide (HY-A0003)-induced sensitivity and inhibits myeloma (MM) drug resistance of cells. When myeloma (MM) cells undergo glutamine-dependent proliferation,  $\alpha$ -ketoglutarate increases glutamine catabolism to promote protein demethylation<sup>[1]</sup>.

### REFERENCES

[1]. Chirackal S, et al. Myeloma Cells Addicted to Glutamine for Biomass Production Are Sensitive to Lenalidomide[J]. Blood, 2019, 134: 4410.

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

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