

## **Data Sheet**

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**Product Name** : L-α-Hydroxyglutaric acid disodium

 Cat. No.
 : PC-62978

 CAS No.
 : 63512-50-5

 Molecular Formula : C<sub>5</sub>H<sub>6</sub>Na<sub>2</sub>O<sub>5</sub>

 Molecular Weight : 192.08

Target : Histone Demethylase
Solubility : 10 mM in DMSO



## **Biological Activity**

L- $\alpha$ -Hydroxyglutaric acid disodium (L-2-Hydroxyglutarate, L-2-HG) competitive inhibitor of multiple  $\alpha$ -KG-dependent dioxygenases, including histone demethylases and the TET family of 5-methlycytosine (5mC) hydroxylases. L- $\alpha$ -Hydroxyglutaric acid disodium comptes with  $\alpha$ -KG and inhibits KDM5B/JARID1B/PLU-1 with Ki of 0.628 mM. L- $\alpha$ -Hydroxyglutaric acid disodium binds and inhibits **ATP synthase** and inhibit mTOR signaling in IDH1 mutant cells.

## References

Xu W, et al. *Cancer Cell*. 2011 Jan 18;19(1):17-30. Fu X, et al. *Cell Metab*. 2015 Sep 1;22(3):508-15.

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

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