

(2S)-Octyl- $\alpha$ -hydroxyglutarate

## Chemical Properties

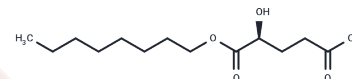
CAS No. : 1391194-64-1

Formula: C<sub>13</sub>H<sub>24</sub>O<sub>5</sub>

Molecular Weight: 260.33

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	(2S)-Octyl- $\alpha$ -hydroxyglutarate ((2S)-Octyl-2-HG) is a modified form of the S-isomer of 2-Hydroxyglutarate.
Targets(IC50)	Others
In vitro	Treatment of IDH1-WT HeLa cells with (2S)-Octyl- $\alpha$ -hydroxyglutarate [a modified form of 2-Hydroxyglutarate with high cellular uptake] results in a dose-dependent increase in DSB in log phase cells.

## Solubility Information

Solubility	DMSO: 100 mg/mL (384.13 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (12.68 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	3.8413 mL	19.2064 mL	38.4128 mL
5 mM	0.7683 mL	3.8413 mL	7.6826 mL
10 mM	0.3841 mL	1.9206 mL	3.8413 mL
50 mM	0.0768 mL	0.3841 mL	0.7683 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Sulkowski PL, et al. 2-Hydroxyglutarate produced by neomorphic IDH mutations suppresses homologous recombination and induces PARP inhibitor sensitivity. *Sci Transl Med.* 2017 Feb 1;9(375).

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