

FT-AYHRF0



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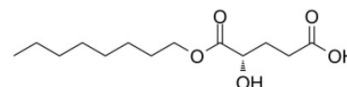
BIOSCIENCES

## (2R)-Octyl- $\alpha$ -hydroxyglutarate

Modified form of D-isomer 2-Hydroxyglutarate

### Product Description

<b>Catalog #:</b>	AYHRF1, 1mg AYHRF3, 5mg AYHRF0, 10mg AYHRF2, 25mg AYHV90, 1ml (10mM in DMSO)
<b>Name:</b>	<b>(2S)-Octyl-<math>\alpha</math>-hydroxyglutarate</b> Syn.: (2S)-Octyl-2-HG CAS : 1391194-64-1
<b>MW :</b>	260.33
<b>Formula :</b>	C <sub>13</sub> H <sub>24</sub> O <sub>5</sub>
<b>Properties :</b>	Purity: 98%
<b>Storage:</b>	Powder: -20°C (store under nitrogen, away from moisture) <sup>(M)</sup> In solvent: -80°C (6 months) -20°C (1 month)
For Research Use Only	



### Introduction

(2S)-Octyl- $\alpha$ -hydroxyglutarate ((2S)-Octyl-2-HG) is a modified form of S-isomer 2-Hydroxyglutarate.

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 DSBs in log-phase cells <sup>[1]</sup>.

### In Vitro

DMSO :  $\geq$  100 mg/mL (384.13 mM)

### In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility:  $\geq$  2.5 mg/mL (9.60 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE- $\beta$ -CD in saline)  
Solubility:  $\geq$  2.5 mg/mL (9.60 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility:  $\geq$  2.5 mg/mL (9.60 mM); Clear solution

### References

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

## Ordering information

Catalog size quantities and prices may be found at <http://www.interchim.com>.

Please contact InterBioTech – Interchim for any other information

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