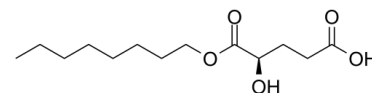


## Data Sheet

Product Name:	(2R)-Octyl- $\alpha$ -hydroxyglutarate
Cat. No.:	CS-7863
CAS No.:	1391194-67-4
Molecular Formula:	C <sub>13</sub> H <sub>24</sub> O <sub>5</sub>
Molecular Weight:	260.33
Target:	Others
Pathway:	Others
Solubility:	DMSO : 100 mg/mL (384.13 mM; Need ultrasonic)



### BIOLOGICAL ACTIVITY:

(2R)-Octyl- $\alpha$ -hydroxyglutarate ((2R)-Octyl-2-HG) is a modified form of D-isomer 2-Hydroxyglutarate. **In Vitro:** Treatment of IDH1-WT HeLa cells with (2R)-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. It has been used to examine the contribution of D-2-Hydroxyglutarate to the oxidative mitochondrial processes of IDH1-mutated cancer cells<sup>[1]</sup>.

### References:

[1]. 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).

### CAIndexNames:

Pentanedioic acid, 2-hydroxy-, 1-octyl ester, (2R)-

### SMILES:

O=C(OCCCCCCCC)[C@H](O)CCC(=O)O

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

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