


## Certificate of Analysis

Catalog Number	BP13606
Product Name	(2R)-Octyl- $\alpha$ -hydroxyglutarate

## Physical and Chemical Properties

Synonyms	(2R)-Octyl-2-HG
CAS No.	1391194-67-4
Chemical Formula	C <sub>13</sub> H <sub>24</sub> O <sub>5</sub>
Molecular Weight	260.33
Solubility	DMSO: 100 mg/mL (384.13 mM), Need ultrasonic
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

## Product Information

Description	(2R)-Octyl- $\alpha$ -hydroxyglutarate ((2R)-Octyl-2-HG) is a D-isomer 2-Hydroxyglutarate modified form.
In vitro	Treatment of IDH1-WT HeLa cells with (2R)-octyl- $\alpha$ -hydroxyglutaric acid (a modified form of 2-hydroxyglutaric acid with high cellular uptake) results in a dose-dependent DSB in log phase cells increase. It has been used to examine the contribution of D-2-hydroxyglutarate to the oxidative mitochondrial process of IDH1 mutant cancer cells.

## Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

Purdue Bioscience Inc.

750 50th St, Brooklyn, NY 11220, USA

<https://www.purduebio.com>

1-877.618.7311

info@purduebio.com

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