



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

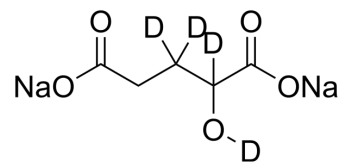
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

α -Hydroxyglutaric acid-d₄ disodium

Cat. No.:	HY-113038AS1
CAS No.:	2483831-91-8
Molecular Formula:	C ₅ H ₂ D ₄ Na ₂ O ₅
Molecular Weight:	196.1
Target:	Histone Demethylase; Endogenous Metabolite
Pathway:	Epigenetics; Metabolic Enzyme/Protease
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro H₂O : 125 mg/mL (637.43 mM; Need ultrasonic and warming)

Preparing Stock Solutions	Solvent		1 mg	5 mg	10 mg
	Concentration	Mass			
	1 mM		5.0994 mL	25.4972 mL	50.9944 mL
	5 mM		1.0199 mL	5.0994 mL	10.1989 mL
	10 mM		0.5099 mL	2.5497 mL	5.0994 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description α -Hydroxyglutaric acid-d₄ (disodium) is the deuterium labeled α -Hydroxyglutaric acid disodium[1]. α -Hydroxyglutaric acid (2-Hydroxyglutarate) disodium is an α -hydroxy acid form of glutaric acid. α -Hydroxyglutaric acid disodium is a competitive inhibitor of multiple α -ketoglutarate-dependent dioxygenases, including histone demethylases and the TET family of 5-methylcytosine (5mC) hydroxylases[2].

In Vitro Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019 Feb;53(2):211-216.
- [2]. Wei Xu, et al. Oncometabolite 2-hydroxyglutarate is a competitive inhibitor of α -ketoglutarate-dependent dioxygenases. *Cancer Cell.* 2011 Jan 18;19(1):17-30.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA