



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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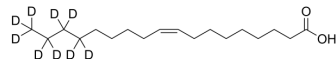
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## Oleic acid-d<sub>9</sub>

<b>Cat. No.:</b>	HY-N1446S5		
<b>CAS No.:</b>	2687960-84-3		
<b>Molecular Formula:</b>	C <sub>18</sub> H <sub>25</sub> D <sub>9</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	291.52		
<b>Target:</b>	Apoptosis; Na <sup>+</sup> /K <sup>+</sup> ATPase; Endogenous Metabolite		
<b>Pathway:</b>	Apoptosis; Membrane Transporter/Ion Channel; Metabolic Enzyme/Protease		
<b>Storage:</b>	Pure form	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



### BIOLOGICAL ACTIVITY

<b>Description</b>	Oleic acid-d <sub>9</sub> is deuterium labeled Oleic acid. Oleic acid is an abundant monounsaturated fatty acid. Oleic acid is a Na <sup>+</sup> /K <sup>+</sup> ATPase activator[1][2].
<b>In Vitro</b>	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[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Jack-Hays MG, et al. Activation of Na<sup>+</sup>/K<sup>+</sup>-ATPase by fatty acids, acylglycerols, and related amphiphiles: structure-activity relationship. *Biochim Biophys Acta*. 1996 Feb 21;1279(1):43-8.
- [2]. Li S, et al. High metastatic gastric and breast cancer cells consume oleic acid in an AMPK dependent manner. *PLoS One*. 2014 May 13;9(5):e97330.
- [3]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-223.

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

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