



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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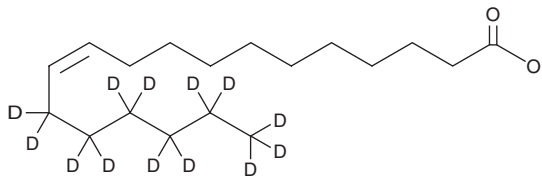
# PRODUCT INFORMATION



## *cis*-Vaccenic Acid-d<sub>13</sub>

Item No. 27716

**Formal Name:** (Z)-octadec-11-enoic-13,13,14,14,15,15,16,16,17,17,18,18,18-d<sub>13</sub> acid  
**Synonyms:** 18:1 *cis*-11-d<sub>13</sub>, *cis*-11-Octadecenoic Acid-d<sub>13</sub>  
**MF:** C<sub>18</sub>H<sub>21</sub>D<sub>13</sub>O<sub>2</sub>  
**FW:** 295.5  
**Chemical Purity:** ≥98% (*cis*-Vaccenic Acid)  
**Deuterium Incorporation:** ≥99% deuterated forms (d<sub>1</sub>-d<sub>13</sub>); ≤1% d<sub>0</sub>  
**Supplied as:** An oil  
**Storage:** -20°C  
**Stability:** ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

*cis*-Vaccenic acid-d<sub>13</sub> is intended for use as an internal standard for the quantification of *cis*-vaccenic acid (Item No. 20023) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

*cis*-Vaccenic acid-d<sub>13</sub> is supplied as an oil. A stock solution may be made by dissolving the *cis*-vaccenic acid-d<sub>13</sub> in the solvent of choice, which should be purged with an inert gas. *cis*-Vaccenic acid-d<sub>13</sub> is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of *cis*-vaccenic acid-d<sub>13</sub> in ethanol is approximately 50 mg/ml and approximately 30 mg/ml in DMSO and DMF.

### Description

*cis*-Vaccenic acid is an ω-7 fatty acid that has been found in mango pulp.<sup>1</sup> It induces differentiation of, and γ-globin synthesis in, K562 and JK-1 cells, as well as isolated sickle cell transgenic mouse bone marrow erythroid progenitor cells (TMbmEPSCs).<sup>2</sup>

### References

1. Shibahara, A., Yamamoto, K., Nakayama, T., *et al.* *cis*-Vaccenic acid in mango pulp lipids. *Lipids* **21**(6), 388-394 (1986).
2. Aimola, I.A., Inuwa, H.M., Nok, A.J., *et al.* *Cis*-vaccenic acid induces differentiation and up-regulates gamma globin synthesis in K562, JK1 and transgenic mice erythroid progenitor stem cells. *Eur. J. Pharmacol.* **776**, 9-18 (2016).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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