



# 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

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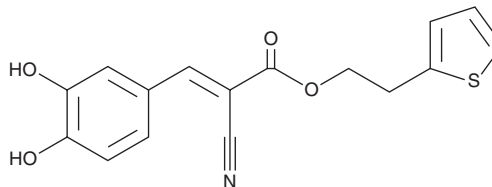
# PRODUCT INFORMATION



## 2-TEDC

Item No. 41872

**CAS Registry No.:** 132465-10-2  
**Formal Name:** 2-cyano-3-(3,4-dihydroxyphenyl)-2-propenoic acid, 2-(2-thienyl) ethyl ester  
**Synonyms:** ethyl 3,4-Dihydroxybenzylidenecyanoacetate, EDC  
**MF:** C<sub>16</sub>H<sub>13</sub>NO<sub>4</sub>S  
**FW:** 315.3  
**Purity:** ≥98%  
**Supplied as:** A solid  
**Storage:** -20°C  
**Stability:** ≥4 years



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

### Laboratory Procedures

2-TEDC is supplied as a solid. A stock solution may be made by dissolving the 2-TEDC in the solvent of choice, which should be purged with an inert gas. 2-TEDC is soluble (≥10 mg/ml) in ethanol and DMSO.

### Description

2-TEDC is a lipoxygenase (LO) inhibitor (IC<sub>50</sub>s = 0.09, 0.013, and 0.5 μM for 5-, 12-, and 15-LO, respectively).<sup>1</sup> It prevents axon degeneration induced by withdrawal of nerve growth factor (NGF) in primary rat dorsal root ganglion neurons (mean EC<sub>50</sub> = 2.79 μM).<sup>2</sup> 2-TEDC also inhibits severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) RNA-dependent RNA polymerase (RdRp; IC<sub>50</sub> = 7.99 μM) and reduces major capsid protein levels and virus titers in grouper spleen cells infected with Singapore grouper iridovirus when used at a concentration of 12.5 μM.<sup>3,4</sup>

### References

1. Cho, H., Ueda, M., Tamaoka, M., *et al.* Novel caffeic acid derivatives: Extremely potent inhibitors of 12-lipoxygenase. *J. Med. Chem.* **34**(4), 1503-1505 (1991).
2. Rudhard, Y., Ghosh, A.S., Lippert, B., *et al.* Identification of 12/15-lipoxygenase as a regulator of axon degeneration through high-content screening. *J. Neurosci.* **35**(7), 2927-2941 (2015).
3. Kuzikov, M., Reinshagen, J., Wycisk, K., *et al.* Drug repurposing screen to identify inhibitors of the RNA polymerase (nsp12) and helicase (nsp13) from SARS-CoV-2 replication and transcription complex. *Virus Res.* **343**, 199356 (2024).
4. Ni, N., Zheng, J., Wang, W., *et al.* Singapore grouper iridovirus disturbed glycerophospholipids homeostasis: Cytosolic phospholipase A2 was essential for virus replication. *Int. J. Mol. Sci.* **22**(22), 12597 (2021).

#### 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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