

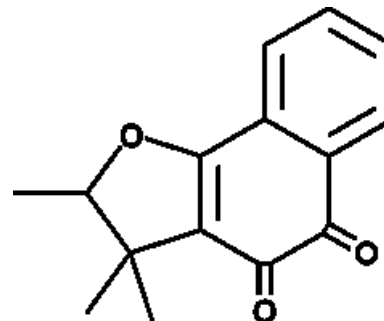
# Product Information



**(±)-Dunnione**  
Cat No: 21943 - 1 mg

## General Data

<b>Shipping:</b>	dry ice
<b>Formulation:</b>	A crystalline solid
<b>Purity:</b>	≥98%



## Product Overview

(±)-Dunnione is a naturally occurring naphthoquinone with diverse biological activities.<sup>{40460,40463,40461,40462}</sup> It exhibits fungicidal activity against ten agriculturally relevant plant fungi in vitro (MICs = 5-20 mg/L) and in infected wheat and barley plants (EC50s = 2-20 mg/L).<sup>{40460}</sup> (±)-Dunnione also reduces the growth of *T. cruzi* epimastigotes (IC50 = 4.01 μM).<sup>{40463}</sup> It is a substrate for NAD(P)H:quinone oxidoreductase 1 (NQO1) that increases production of reactive oxygen species (ROS) and induces cell death of A549 lung carcinoma cells (IC50 = 6.1 μM).<sup>{40461}</sup> (±)-Dunnione (20 mg/kg per day for 4 days) increases intracellular NAD<sup>+</sup> (Item No. 16077) and prevents inflammatory cytokine production and small intestinal damage induced by cisplatin (Item No. 13119) in mice.<sup>{40462}</sup>

FP/03/24

For research laboratory use only – Not for human diagnostic use.

Buyers agree to purchase the material subject to Purchasing Terms that can be found on our website. Seek appropriate training to safely handle this product under normal conditions. Use the recommended personal protective equipment to prevent chemical exposures.

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