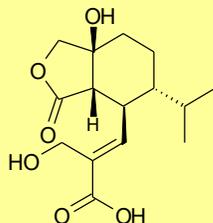


# Hydroheptelidic acid

Cat.# BLK-1800

## Structure



**Origin:** Trichoderma sp.

**CAS Registry Number:** 192818-49-8

**Appearance:** Orange solid

**Molecular Formula/ Weight:** C<sub>15</sub>H<sub>22</sub>O<sub>6</sub>=298.34

**Purity:** >95.0% by HPLC

**Solubility:** Sol. in 1mg/ml ethanol, methanol, DMSO

## Background Information:

Hydroheptelidic acid is a fungal secondary metabolite structurally related to heptelidic acid (koningic acid), a sesquiterpene epoxide originally isolated from *Trichoderma koningii*<sup>1</sup>). Koningic acid was identified as a specific inhibitor of glyceraldehyde-3-phosphate dehydrogenase (GAPDH), thereby suppressing ATP generation in the glycolytic pathway<sup>2</sup>). Hydroheptelidic acid is recognized as a related scaffold among bioactive metabolites produced by endophytic fungi<sup>3,4</sup>). Recent reviews of endophyte-derived secondary metabolites highlight sesquiterpenoid epoxides such as hydroheptelidic acid as promising chemical scaffolds with antifungal and metabolic regulatory potential. These compounds are of interest for studies on glycolysis, cancer metabolism, and the discovery of novel antifungal agents.

## Handling and Storage:

Store at -20°C.

## References:

1. Nat. Prod. Commun. 2015, 10, 1671–1682.
2. J. Antibiot. 1985, 38, 920–925.
3. Front. Microbiol. 2021, 12, 783609.
4. Microorganisms 2024, 12, 1903.

*Manufactured with Cortesy strain from The Kitasato Institute.*