Product Data Sheet

(24E)-3,4-Secocucurbita-4,24-diene-3,26,29-trioic acid

Cat. No.: HY-N1783 CAS No.: 329975-47-5 Molecular Formula: $C_{31}H_{48}O_6$ Molecular Weight: 516.71

Target: Phosphatase

Pathway: Metabolic Enzyme/Protease

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

BIOLOGICAL ACTIVITY

Description	(24E)-3,4-Secocucurbita-4,24-diene-3,26,29-trioic acid is a potent PTP1B inhibitor, with an IC $_{50}$ of 0.4 μ M. (24E)-3,4-Secocucurbita-4,24-diene-3,26,29-trioic acid exhibits potent PTP1B inhibitory activity without cytotoxicity ^[1] .
IC ₅₀ & Target	IC50: $0.4 \mu\text{M} (\text{PTP1B})^{[1]}$
In Vitro	(24E)-3,4-Secocucurbita-4,24-diene-3,26,29-trioic acid has little growth inhibitory effects against human cancer cell lines Huh-7 (hepatoma) and EJ-1 (bladder), up to 50 μ M ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Maarisit W, et al. Protein tyrosine phosphatase 1B inhibitory properties of seco-cucurbitane triterpenes obtained from fruiting bodies of Russula lepida. J Nat Med. 2017 Jan;71(1):334-337.

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

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