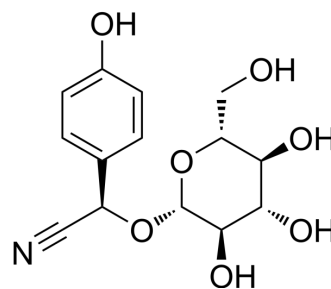


## Taxiphyllin

Cat. No.:	HY-N1170
CAS No.:	21401-21-8
Molecular Formula:	C <sub>14</sub> H <sub>17</sub> NO <sub>7</sub>
Molecular Weight:	311.29
Target:	Others; Tyrosinase
Pathway:	Others; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Taxiphyllin (2R-Taxiphyllin) is a plant cyanogenic glycoside, which exhibits inhibitory activity for tyrosinase<sup>[2]</sup>. Taxiphyllin exhibits cytotoxicity in BRL-3A cells with an IC<sub>50</sub> of 18.75 μm<sup>[3]</sup> and antimicrobial activities against *Staphylococcus aureus* with an EC<sub>50</sub> of 0.96 μM<sup>[4]</sup>.

### REFERENCES

- [1]. Yang CJ, et al. Two new cyanogenic glucosides from the leaves of *Hydrangea macrophylla*. *Molecules*. 2012;17(5):5396-5403.
- [2]. Wu B. Tyrosinase inhibitors from terrestrial and marine resources. *Curr Top Med Chem*. 2014;14(12):1425-49.
- [3]. Yi JJ, et al., Characterisation and in vitro cytotoxicity of toxic and degradation compounds in bamboo shoots (*Dendrocalamus Sinicus*) during traditional fermentation. *Int J of Food Sci Tech*. 2020
- [4]. Oueslati MH, et al., Phytochemical constituents from *Salsola tetrandra*. *J Nat Prod*. 2006 Sep;69(9):1366-9.

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

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