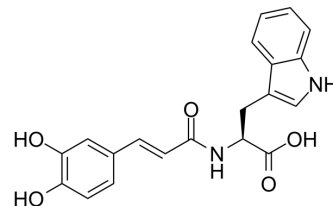


Caffeoyltryptophan

Cat. No.:	HY-N10002
CAS No.:	109163-69-1
Molecular Formula:	C ₂₀ H ₁₈ N ₂ O ₅
Molecular Weight:	366.37
Target:	Phosphatase; Glucosidase
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



BIOLOGICAL ACTIVITY

Description

Caffeoyltryptophan is a competitive PTP1B inhibitor, with an IC₅₀ of 16.99 μM. Caffeoyltryptophan can also inhibit α-glucosidase, linoleic acid peroxidation and haemolysis. Caffeoyltryptophan can be used for the research of type 2 diabetes^[1].

REFERENCES

- [1]. Ha MT, et, al. PTP1B and α-glucosidase inhibitory activities of the chemical constituents from Hedera rhombea fruits: Kinetic analysis and molecular docking simulation. *Phytochemistry*. 2022 May;197:113100.
- [2]. Ohnishi M, et, al. Inhibition in vitro linoleic acid peroxidation and haemolysis by caffeoyltryptophan. *Phytochemistry*. 1998 Apr;47(7):1215-8.

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

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