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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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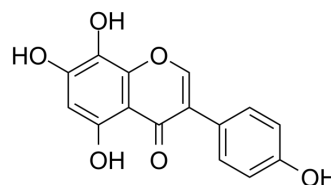
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8-Hydroxygenistein

Cat. No.:	HY-W753779
CAS No.:	13539-27-0
Molecular Formula:	C ₁₅ H ₁₀ O ₆
Molecular Weight:	286.24
Target:	Reactive Oxygen Species; NO Synthase
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

8-Hydroxygenistein (8-OHG) is an antioxidant that can effectively scavenge nitric oxide (NO) and superoxide anion (O₂⁻). 8-Hydroxygenistein belongs to ortho-dihydroxy isoflavones (ODI) and is abundantly present in dark soy sauce and light soy sauce. Its antioxidant activity is stronger than that of its parent compound genistein (HY-14596). The content of 8-Hydroxygenistein is positively correlated with the antioxidant capacity of soy sauce (r = 0.959), and it remains highly stable even after being heated in boiling water for 60 minutes. During the brewing and storage of soy sauce, 8-Hydroxygenistein effectively prevents oxidative damage, making it promising for use in food antioxidant research.

REFERENCES

- [1]. Esaki H, et al. Potent antioxidative o-dihydroxyisoflavones in soy sauces and their antioxidative activities[J]. 2002.
- [2]. Shao J, et al. Synthesis, characterization, and antioxidant activity of 8-hydroxygenistein[J]. Natural Product Communications, 2020, 15(1): 1934578X20901399.

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

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