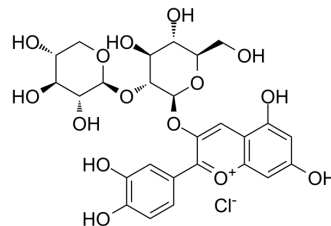


Cyanidin 3-sambubioside chloride

| | |
|--------------------|--|
| Cat. No.: | HY-N2533 |
| CAS No.: | 33012-73-6 |
| Molecular Formula: | C ₂₆ H ₂₉ ClO ₁₅ |
| Molecular Weight: | 616.95 |
| Target: | Influenza Virus; Angiotensin-converting Enzyme (ACE) |
| Pathway: | Anti-infection; Metabolic Enzyme/Protease |
| Storage: | 4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light) |



BIOLOGICAL ACTIVITY

Description

Cyanidin 3-sambubioside chloride (Cyanidin-3-O-sambubioside chloride), a major anthocyanin, a natural colorant, and is a potent NO inhibitor. Cyanidin 3-sambubioside chloride is a H274Y mutation inhibitor, and inhibits influenza neuraminidase activity with an IC₅₀ of 72 μM. Cyanidin 3-sambubioside chloride inhibits angiotensin-converting enzyme (ACE) activity and has antioxidant, anti-angiogenic and antiviral properties^{[1][2][3]}.

REFERENCES

- [1]. Jung-Chu Cheng, et al. Detection of cyanidin in different-colored peanut testae and identification of peanut cyanidin 3-sambubioside. *J Agric Food Chem.* 2009 Oct 14;57(19):8805-11.
- [2]. S Kannan, et al. The inhibitory performance of flavonoid cyanidin-3-sambubioside against H274Y mutation in H1N1 influenza virus. *J Biomol Struct Dyn.* 2018 Dec;36(16):4255-4269.
- [3]. Sang-Jin Lee, et al. Cyanidin-3-O-sambubioside from *Acanthopanax sessiliflorus* fruit inhibits metastasis by downregulating MMP-9 in breast cancer cells MDA-MB-231. *Planta Med.* 2013 Nov;79(17):1636-40.

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

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