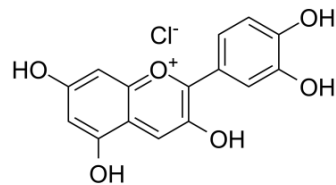


Cyanidin Chloride

Cat. No.:	HY-N0499
CAS No.:	528-58-5
Molecular Formula:	C ₁₅ H ₁₁ ClO ₆
Molecular Weight:	322.7
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the COA.



BIOLOGICAL ACTIVITY

Description	Cyanidin Chloride (IdB 1027), a subclass of anthocyanin, displays antioxidant and anti-carcinogenesis properties. Cyanidin Chloride (IdB 1027) inhibits osteoclast formation, hydroxyapatite resorption, and receptor activator of NF-κB ligand (RANKL)-induced osteoclast marker gene expression ^[1] .
In Vitro	Cyanidin Chloride (IdB 1027) inhibits receptor activator of NF-κB ligand (RANKL)-induced NF-κB activation, suppresses the degradation of IκB-α and attenuates the phosphorylation of extracellular signal-regulated kinases (ERK). Cyanidin Chloride (IdB 1027) abrogates RANKL-induced calcium oscillations, the activation of nuclear factor of activated T cells calcineurin-dependent 1 (NFATc1), and the expression of c-Fos ^[1] .
In Vivo	Cyanidin Chloride (IdB 1027) protects against OVX-induced bone loss in OVX-induced osteoporosis mouse model ^[1] .

REFERENCES

[1]. Cheng J, et al. Cyanidin Chloride inhibits ovariectomy-induced osteoporosis by suppressing RANKL-mediated osteoclastogenesis and associated signaling pathways. *J Cell Physiol.* 2018 Mar;233(3):2502-2512.

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

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