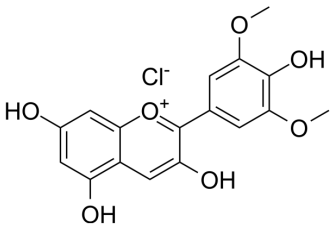
Malvidin chloride

Cat. No.:	HY-122496
CAS No.:	643-84-5
Molecular Formula:	$C_{17}H_{15}ClO_7$
Molecular Weight:	366.75
Target:	Apoptosis
Pathway:	Apoptosis
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

Malvidin (chloride) is a bioactive compound isolated from grape. Malvidin shows cytotoxicity through the arrest of the G_2/M phase of cell cycle and induction of apoptosis. Malvidin can be used for the research of cancer[1].

In Vitro

Malvidin (0~80 μg/mL; 96 hours; U937 cells) shows cytotoxic activity in a dose-dependent pattern[1].
The IC_{50} value of Malvidin for U937 cells is 40 μg/mL. Malvidin (U937 cells) shows arrest at the G_2/M phase of the cell cycle and increases sub G_1 hypo-diploid population[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay[1]

Cell Line:	U937 cells
Concentration:	0~80 μg/mL
Incubation Time:	96 hours
Result:	Showed cytotoxic activity in a dose-dependent pattern.

REFERENCES

[1]. Jin W H, et al. Cyanidin and Malvidin fromOryza sativacv. HeugjinjubyeoMediate Cytotoxicity against Human Monocytic Leukemia Cellsby Arrest of G2/M Phase and Induction of Apoptosis. J. Agric. Food Chem. 2004, 52, 8, 2213–2217

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