Kuwanon A

Cat. No.: HY-N2300
CAS No.: 62949-77-3
Molecular Formula: \(C_{25}H_{24}O_6\)
Molecular Weight: 420.45
Target: NO Synthase
Pathway: Immunology/Inflammation
Storage: 4°C, protect from light
* In solvent: -80°C, 6 months; -20°C, 1 month (protect from light)

BIOLOGICAL ACTIVITY

Description
Kuwanon A is a flavone derivative isolated from the root barks of the mulberry tree (Morus alba L.); inhibits nitric oxide production with an IC\(50\) of 10.5 \(\mu\)M.

IC\(50\) & Target
IC50: 10.5 \(\mu\)M (nitric oxide)

In Vitro
Kuwanon A shows significant inhibitory activity towards the differentiation of 3T3-L1 adipocytes with TG inhibition values of 47.1%. Kuwanon A also shows significant nitric oxide (NO) production inhibitory effects in RAW264.7 cells with an IC\(50\) of 10.5 \(\mu\)M\([1]\).

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Cell Assay\([1]\)
RAW264.7 cells are treated with Kuwanon A (3, 10, 20, 30, 100 \(\mu\)M). Cell viability is measured using the MTT assay\([1]\).

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Biomed Pharmacother. 2020 Sep;129:110369.

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REFERENCES
