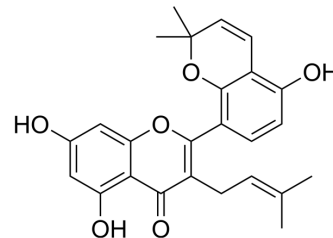


Kuwanon A

| | |
|---------------------------|--|
| 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 (<i>Morus alba</i> L.); inhibits nitric oxide production with an IC ₅₀ of 10.5 μM. |
| IC₅₀ & Target | IC ₅₀ : 10.5 μM (nitric oxide) ^[1] |
| 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 μM ^[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 μM). 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

[1]. Yang ZG, et al. Inhibitory effects of constituents from *Morus alba* var. *multicaulis* on differentiation of 3T3-L1 cells and nitric oxide production in RAW264.7 cells. *Molecules*. 2011 Jul 19;16(7):6010-22.

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

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