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Supplementary material

α-Tocotrienol in rice bran enhances steroidogenesis in mouse Leydig cell via increased gene expression of steroidogenic acute regulatory protein and induction of its mitochondrial translocation

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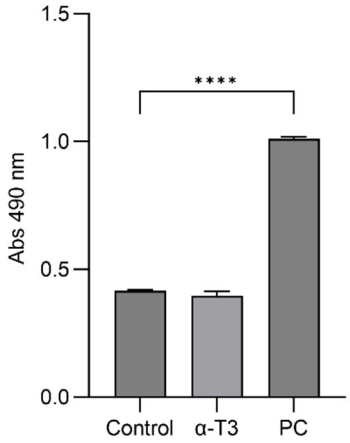


Figure S1. Cytotoxicity assay for the assessment of α-T3 induced damage to I-10 cells.
I-10 cells were treated with α-T3 (50 μM) for 24 h and cytotoxicity was evaluated by Cytotoxicity LDH Assay Kit-WST. PC was treated by lysis buffer included in the kit.

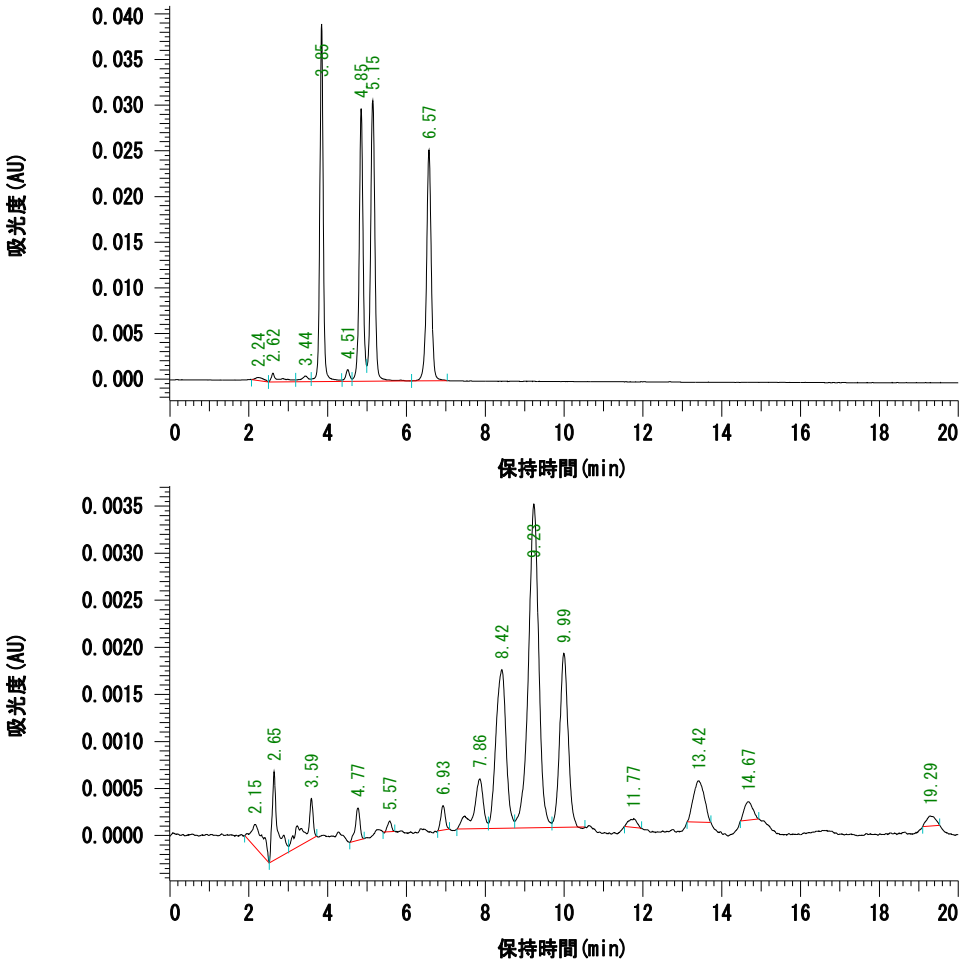


Figure S2. HPLC analysis of T3 standards (top) and extract of unpolished white rice (bottom).

Conditions: column-InertSIL-100A (4.6mm×150 mm, GL Science Inc.), solvent-hexane/1,4-dioxane/2-propanol=100/8/1, flow rate-1.0 mL/min, column oven-35°C, detection-290 nm.

Standards: mixture of 100 μM T3, 10 μL.

Extract of unpolished white rice: 1 mg/mL , 10 μL

Retention time 3.95 (α-T3), 4.85 (β-T3), 5.15 (γ-T3), 6.57 (δ-T3) min

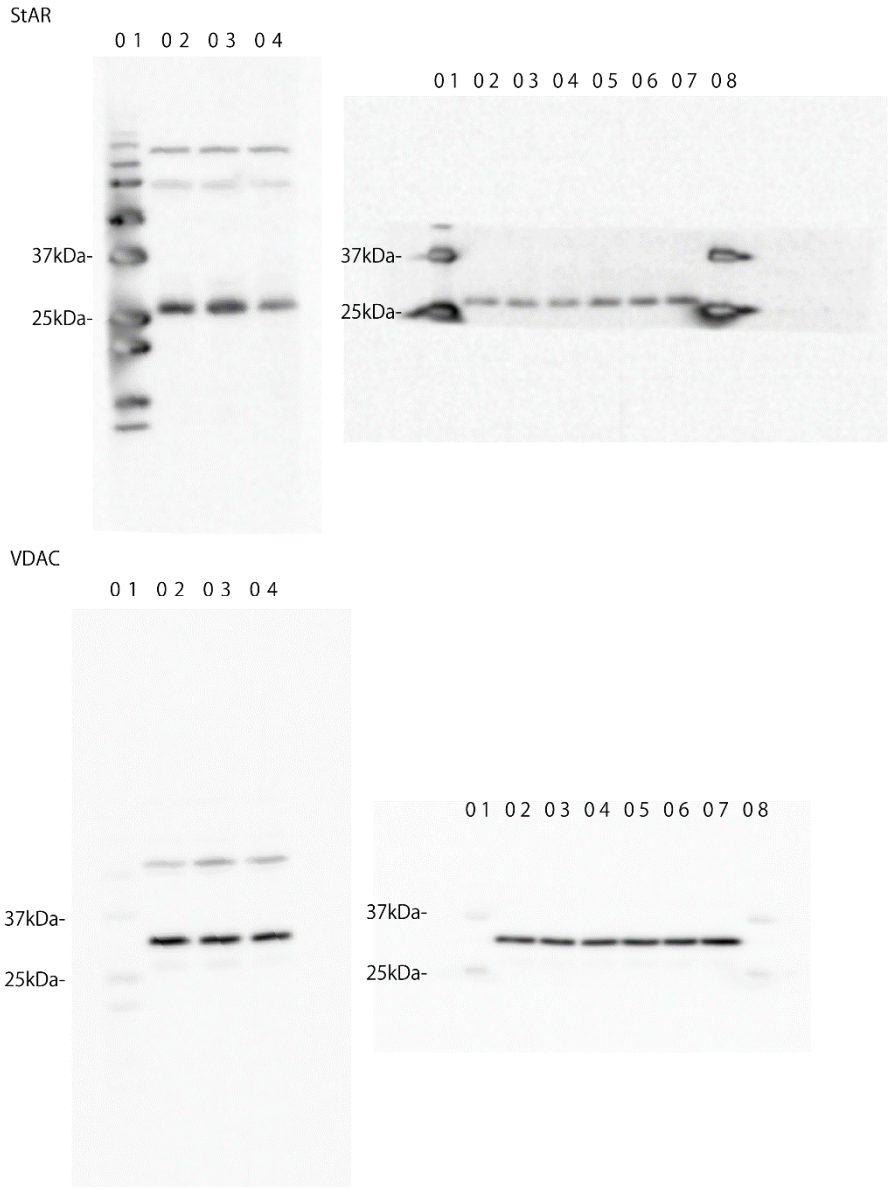


Figure S3. Uncropped image of western blotting (Top: StAR; Bottom: VDAC)
Left: Whole Lane image for an assessment of the antibody specificity (anti-StAR antibody, CST, #8449, 1000:1). Lane 01: Precision plus protein WesternC standard marker (Bio-rad), 02-04: I-10 cell lysate.
Right: Cut membrane was used for quantitative analysis. Lane 01, 08: Precision plus protein WesternC standard, 02-04: control cell lysate, 05-07: α-T3 treated cell lysate.