

TOFA, Acyl-CoA carboxylase inhibitor

Catalog	Unit
TBI1464-10MG	10 mg
TBI1464-50MG	50 mg

Product Details

Formal Name: 5-(Tetradecyloxy)-2-furoic acid

Alternate Names: RMI-14514

Molecular Formula: C₁₉H₃₂O₄

Formula Weight: 324.47

CAS Number: 54857-86-2

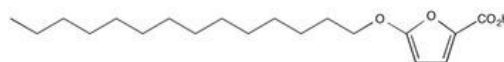
Purity: >98%

Formulation: Powder

Solubility: Soluble in DMSO (up to 15 mg/ml), or in Ethanol (up to 9 mg/ml).

Storage: RT

Stability: ≥ 1 year.



Applications

Acyl-CoA carboxylase inhibitor

Functions

TOFA (54857-86-2) interferes with fatty acid synthase via inhibition of acetyl Co-A carboxylase (ACC1) IC₅₀ = 270 nM (for acetate incorporation). Induces apoptosis in a variety of tumor cell lines. Stimulates neurite outgrowth and neuronal differentiation in rat pheochromocytoma cells. TOFA impairs glucose-stimulated insulin secretion after chronic treatment. Suppresses the growth of ovarian cancer cells *in vitro* and *in vivo*.

Application Procedures

First dissolved in DMSO (up to 15 mg/ml), or in Ethanol (up to 9 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

For research use only.