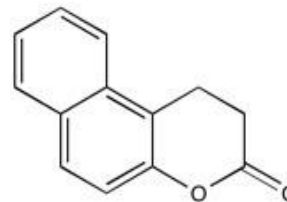


Splitomicin, SIRT1 inhibitor

Catalog	Unit
TBI2615 - 5MG	5 mg
TBI2615 - 25MG	25 mg

Product Details

Formal Name: 1,2-Dihydro-3H-naphtho[2,1-b]pyran-3-one
Alternate Names: Splitomicin
Molecular Formula: C₁₃H₁₀O₂
Formula Weight: 198.22
CAS Number: 5690-03-9
Purity: >98%
Formulation: Powder
Solubility: Soluble in DMSO (up to 25 mg/ml) or in Ethanol (up to 25 mg/ml).
Storage: RT
Stability: ≥ 2 years.



Applications

SIRT1 inhibitor

Functions

Splitomicin (5690-03-9) was initially shown to inhibit Sir2p (the yeast Sirt1 homolog) and create a conditional phenocopy of a sir2 deletion mutant in *S. cerevisiae*. Cells grown in the presence of the drug have silencing defects at telomeres, silent mating-type loci and the ribosomal DNA. Splitomicin inhibits all class III HDACs (sirtuins) and alleviates gene silencing in Fragile X mental retardation syndrome. Reverses ischemic preconditioning-induced cardioprotection in a mouse model.

Application Procedures

First dissolved in DMSO (up to 25 mg/ml) or in Ethanol (up to 25 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.