

# Napabucasin

**Catalog No: tcsc1747**



## Available Sizes

**Size:** 5mg

**Size:** 10mg

**Size:** 50mg

**Size:** 100mg

**Size:** 200mg

**Size:** 500mg

**Size:** 1g



## Specifications

**CAS No:**

83280-65-3

**Formula:**

$C_{14}H_8O_4$

**Pathway:**

JAK/STAT Signaling; Stem Cell/Wnt

**Target:**

STAT; STAT

**Purity / Grade:**

>98%

**Solubility:**

DMSO : 7.14 mg/mL (29.72 mM; Need ultrasonic and warming)

**Observed Molecular Weight:**

240.21

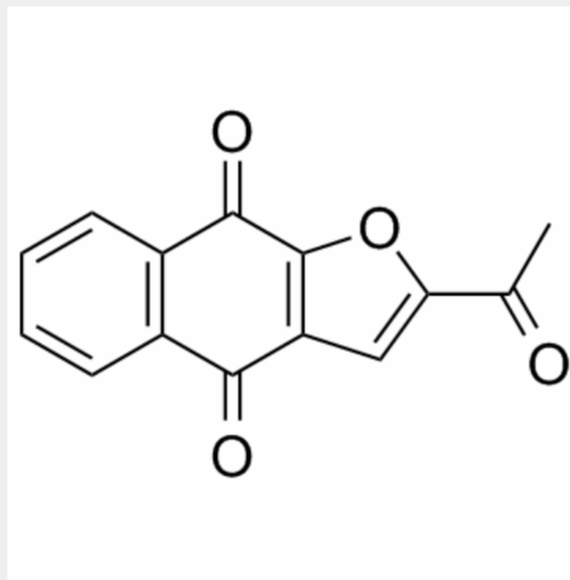
**Product Description**

Napabucasin is a newly found small molecule with the ability to inhibit gene transcription of **STAT3**, which is able to suppress cancer stemness properties and induce cell death.

IC50 & Target: STAT3<sup>[1]</sup>

**In Vitro:** Napabucasin inhibits the expressions of stemness markers and kill stemness-high cancer cells isolated from several kinds of tumors except PCa. Napabucasin not only inhibits cell proliferation, cell motility, cell survival, colony formation ability, and tumorigenic potential of PCa cells, and increases cell apoptosis and sensitivity to docetaxel, but also effectively blocks sphere formation of PrCSCs and kill them as well as inhibits stemness gene expression. Napabucasin inhibits cell proliferation in PC-3 cells and 22RV1 cells at 48, 72, 96, and 120 h (P[1]).

**In Vivo:** Napabucasin (40 mg/kg) or Docetaxel significantly reduces xenograft tumor growth and tumor volume (TV) compared with PBS (P[1]).



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!