Catalog # 10-3442

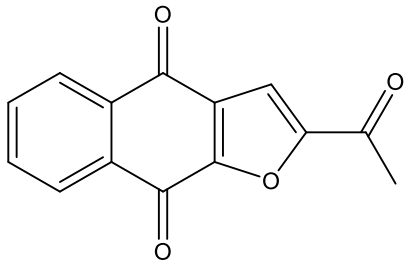
Napabucasin

CAS# 83280-65-3

BB1608

2-Acetylnaphtho[2,3-b]furan-4,9-dione

Lot # FBS2200



Inhibits gene transcription driven by STAT3. Inhibits cancer cell stemness gene expression and blocks spherogenesis of stemness-high cancer cells isolated from a variety of cancer types.[1] Effective antitumor agent as a monotherapy or in combination with other agents such as taxol in mouse models.[2] Clinical trials have demonstrated encouraging anti-tumor activity with the potential to suppress metastasis and prevent relapse in patients with various types of cancer.[2,3] Overcomes cisplatin resistance in non-small cell lung cancer.[4]

1) Li *et al*. (2015), *Suppression of cancer relapse and metastasis by inhibiting cancer stemness*; Proc. Natl. Acad. Sci. USA, **112** 1839
2) Hubbard and Grothey (2017), *Napabucasin: an Update on the First-in-Class Cancer Stemmness Inhibitor*; Drugs, **77** 1091
3) Zhang *et al*. (2016), *Suppression of prostate cancer progression by cancer cell stemness inhibitor napabucasin*; Cancer Med., **5** 1251
4) MacDonagh *et al*. (2018), *BBI608 inhibits cancer stemness and reverses cisplatin resistance in NSCLC*; Cancer Lett., **428** 117

PHYSICAL DATA

Molecular Weight:	240.21
Molecular Formula:	$C_{14}H_8O_4$
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 20 mg/ml)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

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