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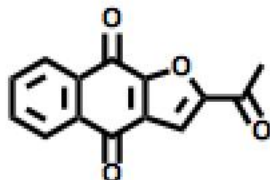
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STAT3 Inhibitor – Napabucasin (BBI608)

Chemical Name: 2-acetylnaphtho[2,3-b]furan-4,9-dione



| | |
|-------------------|---|
| Molecular Weight: | 240.21 |
| Formula: | C ₁₄ H ₈ O ₄ |
| Purity: | ≥98% |
| CAS#: | 83280-65-3 |
| Solubility: | DMSO up to 20 mM |
| Storage | Powder: 4 °C 1 year DMSO: 4 °C 3 months -20 °C 1 year |

Biological Activity:

Napabucasin (BBI608) is a potent and selective STAT3 inhibitor. It can inhibit gene transcription driven by Stat3 and cancer stemness properties, can inhibit stemness gene expression and block spherogenesis of or kill stemness-high cancer cells isolated from a variety of cancer types (IC₅₀~0.14-1.25 μM), but not hematopoietic stem cells. Napabucasin inhibits PaCa-2 xenograft tumor growth in mice, even after cessation of treatment, and decreases population of CSCs in PaCa-2 tumors from treated mice.

How to Use:

In vitro: Napabucasin (BBI608) was used at 0.5-2 μM final concentration in various assays.

In vivo: Napabucasin (BBI608) can be dosed to mice at 50 mg/Kg by IP injection once per day in xenograft models.

Reference:

1. Li Y, et al. Suppression of cancer relapse and metastasis by inhibiting cancer stemness. (2015) Proc Natl Acad Sci USA. 112(6):1839-44.

Products are for research use only. Not for human use.