

Product Data Sheet

Product Name: BSP-16
Cat. No.: GC90705

Chemical Properties

Cas. No. 2727249-47-8

Formula $C_{16}H_{18}O_5Se$

M.Wt 369.3

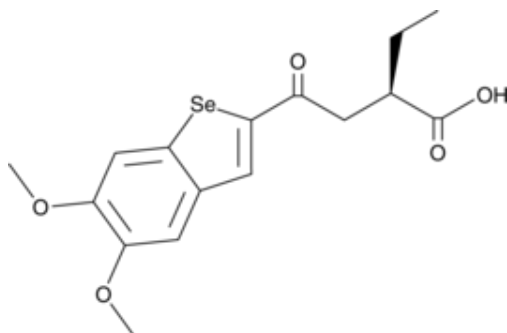
Solubility

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

BSP-16 is a stimulator of interferon genes (STING) agonist.¹ It binds to STING ($K_d = 23 \mu M$) and induces the production of IFN- β , IL-6, and chemokine (C-X-C motif) ligand 10 (CXCL10) in THP-1 cells when used at concentrations of 10, 25, and 50 μM . BSP-16 (50 μM) induces phosphorylation of IFN regulatory factor 3 (IRF3) and TANK-binding kinase 1 (TBK1) in THP-1 cells. *In vivo*, BSP-16 (15 and 30 mg/kg) reduces tumor volume in an MC-38 murine carcinoma model and induces tumor regression in a CT26 murine colorectal carcinoma model. It prevents tumor cell re-challenge-induced tumor formation in a CT26 murine carcinoma model. BSP-16 (20 mg/kg) also reduces tumor volume and increases the number of activated CD8⁺ T cells and natural killer (NK) cells in a 4T1 murine mammary carcinoma model.

Caution: Product has not been fully validated for medical applications. For research use only.

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