

Product Data Sheet

Product Name: SH-BC-893

Cat. No.: GC70569

Chemical Properties

Cas. No. 1841409-92-4

Formula $C_{19}H_{32}ClNO$ M.Wt 325.92

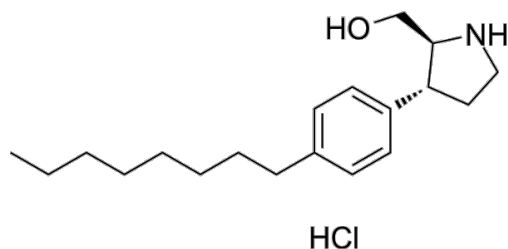
Solubility DMSO : 50 mg/mL (153.41 mM);
Need ultrasonic; Hygroscopic DMSO
has a significant impact on the
solubility of product, please use
newly opened DMSO)

Storage -20°C, sealed storage, away from
moisture

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

SH-BC-893 is an orally active anti-neoplastic sphingolipid analog. SH-BC-893 also protects from ceramide-induced mitochondrial dysfunction and corrects diet-induced obesity. SH-BC-893 can be used for the research of cancer and obesity.

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

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SH-BC-893 starves cancer cells to death by down-regulating cell surface nutrient transporters and blocking lysosomal trafficking events^[1].

SH-BC-893 (5 μ M; 3 h) protects from ceramide-induced mitochondrial network fragmentation by disrupting intracellular trafficking^[2].

SH-BC-893 (8.935 nM; 3 h) protects from ceramide-induced mitochondrial dysfunction^[2].

SH-BC-893 (oral; 120 mg/kg; single) robustly and acutely blocks ceramide-induced mitochondrial dysfunction, correcting diet-induced obesity and its metabolic sequelae^[1].

References:

[1]. Kubiniok, Peter et al. Dynamic Phosphoproteomics Uncovers Signaling Pathways Modulated by Anti-oncogenic Sphingolipid Analogs. Molecular & cellular proteomics : MCP vol. 18,3 (2019): 408-422.

[2]. Jayashankar, Vaishali et al. Drug-like sphingolipid SH-BC-893 opposes ceramide-induced mitochondrial fission and corrects diet-induced obesity. EMBO molecular medicine vol. 13,8 (2021): e13086.

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