

Product Data Sheet

Product Name: Sparstolonin B

Cat. No.: GC60344

Chemical Properties

Cas. No. 1259330-61-4

SMILES O=C1OC=C2C3=C(OC4=C2C1=C(O)C=C4)C=CC(O)=C3

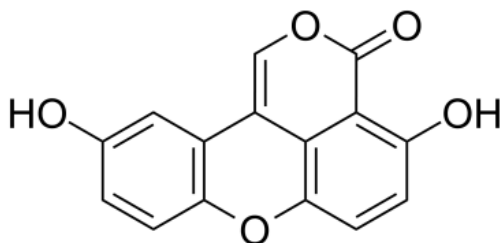
Formula $C_{15}H_8O_5$ M.Wt 268.22

Solubility DMSO : 10 mg/mL (Need ultrasonic and warming) Storage

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

Sparstolonin B acts as a selective TLR2 and TLR4 antagonist and selectively blocks TLR2- and TLR4-mediated inflammatory signaling. Sparstolonin B has anti-HIV and anticancer activities[1][2].

Sparstolonin B (1-20 μ M; 2-4 days) inhibits cell growth and viability of neuroblastoma cells[3]. Sparstolonin B inhibits TLR ligand-induced cytokine expression in mouse macrophages.

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

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Sparstolonin B inhibits MyD88 recruitment to TLR4 and TLR2[1]. Sparstolonin B generates reactive oxygen species (ROS) in neuroblastoma cells. Sparstolonin B reduces expression of N-myc in neuroblastoma cells[3]. Cell Viability Assay[3] Cell Line: SH-SY5Y, IMR-32, NGP, SKNF-1 and SK-N-BE(2) cells

Sparstolonin B (100 µg/mouse; i.p.) suppresses LPS-provoked inflammation in mice[1]. Animal Model: 5-6-week-old male C57Bl/6 mice (body weight 18-20 g)[1]

[1]. Liang Q, et al. Characterization of sparstolonin B, a Chinese herb-derived compound, as a selective Toll-like receptor antagonist with potent anti-inflammatory properties. J Biol Chem. 2011;286(30):26470-26479. [2]. Deng X, et al. The Chinese herb-derived Sparstolonin B suppresses HIV-1 transcription. Virol J. 2015;12:108. Published 2015 Jul 25. [3]. Kumar A, et al. Sparstolonin B, a novel plant derived compound, arrests cell cycle and induces apoptosis in N-myc amplified and N-myc nonamplified neuroblastoma cells [published correction appears in PLoS One. 2016;11(7):e0159082]. PLoS One. 2014;9(5):e96343. Published 2014 May 1.

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