

Product Data Sheet

Product Name: Spliceostatin A

Cat. No.: GC74082

Chemical Properties

Cas. No. 391611-36-2

Formula C₂₈H₄₃NO₈

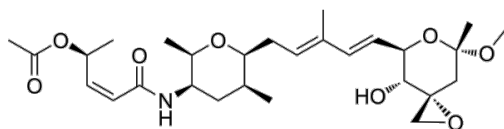
M.Wt 521.64

Solubility Storage -80°C, protect from light

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

Spliceostatin A, the FR901464 methylated derivative, is a potent anti-tumor agent. Spliceostatin A inhibits splicing and promotes pre-mRNA accumulation by binding SF3B1. SF3B1 is a subcomplex of U2 small nuclear ribonucleoprotein in the spliceosome. Spliceostatin A induces Apoptosis in chronic lymphocytic leukemia (CLL) cells.

Spliceostatin A (2.5-20 nM; 0-24 h) induces caspase-dependent apoptosis of CLL cells in a dose- and time-dependent manner[1]. Spliceostatin A (10 nM, 20 nM; 24 h) in combination with ABT-199 or ABT-263 synergises, augments apoptosis in CLL cells following IL4/CD40L (10 ng/mL, 300 ng/mL; 6

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

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h) treatment, and reduce phosphorylation levels of related proteins[1]. Spliceostatin A inhibits the viability of normal B (CD19+) and T (CD3+) lymphocytes with IC50s of 12.1 nM, and 61.7 nM, respectively[1].

References:

- [1]. Larrayoz M, et al. The SF3B1 inhibitor spliceostatin A (SSA) elicits apoptosis in chronic lymphocytic leukaemia cells through downregulation of Mcl-1. *Leukemia*. 2016 Feb;30(2):351-60.
- [2]. Kaida D, et al. Spliceostatin A targets SF3b and inhibits both splicing and nuclear retention of pre-mRNA. *Nat Chem Biol*. 2007 Sep;3(9):576-83.
- [3]. Roybal GA, et al. Spliceostatin A inhibits spliceosome assembly subsequent to prespliceosome formation. *Nucleic Acids Res*. 2010 Oct;38(19):6664-72.

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