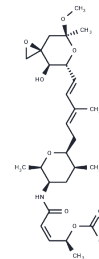


Spliceostatin A

Chemical Properties

CAS No. :	391611-36-2
Formula:	C ₂₈ H ₄₃ N ₀ O ₈
Molecular Weight:	521.643
Storage:	Keep away from direct sunlight, Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Spliceostatin A is an anticancer agent and splicing inhibitor that inhibits the splicing mechanism of the spliceosome and inhibits mitotic clonal expansion and adipogenesis. Spliceostatin A induces cell cycle arrest in the G1 and G2/M phases, and induces apoptosis.
Targets(IC50)	Apoptosis,Others
In vitro	Spliceostatin A (0, 2.5 nM, 5 nM, 10 nM, and 20 nM; 0, 6 h, 12 h, and 24 h) increases apoptosis in chronic lymphocytic leukemia (CLL) cells[1].
In vivo	BTA-EG4 (30 mg/kg; injections; daily; 2 weeks) improved dendritic spine density and cognitive function of 3xTg AD mice in an age-dependent manner. BTA-EG4 injected 3xTg AD mice at 6-10 months of age showed improved learning and memory; however, only minimal improvement was observed at 13-16 months of age. This behavioral improvement corresponds to a decrease in soluble A β 40 levels. These findings suggest that BTA-EG4 may be beneficial in ameliorating the synaptic loss seen in early AD.[2]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.917 mL	9.5852 mL	19.1703 mL
5 mM	0.3834 mL	1.917 mL	3.8341 mL
10 mM	0.1917 mL	0.9585 mL	1.917 mL
50 mM	0.0383 mL	0.1917 mL	0.3834 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Larrayoz M, et al. The SF3B1 inhibitor spliceostatin A (SSA) elicits apoptosis in chronic lymphocytic leukaemia cells through downregulation of Mcl-Leukemia. 2016 Feb;30(2):351-60.

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.

Roybal GA, et al. Spliceostatin A inhibits spliceosome assembly subsequent to prespliceosome formation. Nucleic Acids Res. 2010 Oct;38(19):6664-72.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481