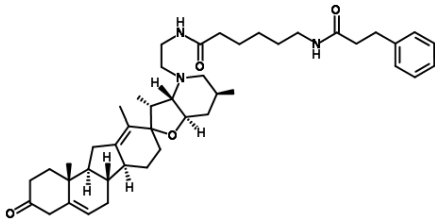




## Product Specification Sheet

<b>Product Name</b>	Stemolecule™ KAAD-Cyclopamine
<b>Description</b>	Stemolecule KAAD-Cyclopamine is a sonic hedgehog antagonist known to target Smoothened <sup>1</sup> . Hedgehog signaling is involved in embryogenesis as well as cancer progression <sup>2</sup> . KAAD-Cyclopamine has been utilized to halt the migration or proliferation of a variety of cancer cells (e.g. esophageal, gastrointestinal, hepatic and pancreatic cancer) <sup>3-6</sup> .
<b>Catalog Number</b>	04-0028
<b>Size</b>	100 µg
<b>Alternate Name</b>	N-[2-[(3'R,7'aR)-3',6',10,11b-tetramethyl-3-oxospiro[1,2,4,6,6a,6b,7,8,11,11a-decahydrobenzo[a]fluorene-9,2'-3,3a,5,6,7,7a-hexahydrofuro[3,2-b]pyridine]-4'-yl]ethyl]-6-(3-phenylpropanoylamino)hexanamide
<b>Chemical Formula</b>	C <sub>44</sub> H <sub>63</sub> N <sub>3</sub> O <sub>4</sub>
<b>Structure</b>	
<b>Molecular Weight</b>	697.99
<b>CAS Number</b>	306387-90-6
<b>Purity</b>	Greater than 95% by TLC analysis
<b>Formulation</b>	Pale yellow solid
<b>Solubility</b>	For a 10 mM concentrated stock solution of KAAD-Cyclopamine, reconstitute the compound by adding 14.3 µl of DMSO to the entire contents of the vial. If precipitate is observed, warm the solution to 37°C for 2 to 5 minutes. For cell culture, the media should be prewarmed prior to adding the reconstituted compound. Note: for most cells, the maximum tolerance to DMSO is less than 0.5%. This molecule is soluble in DMSO at 10 mM, ethanol at 1.4 mM, and methanol at 1.4 mM.
<b>Storage and Stability</b>	Store powder at 4°C protected from light. Following reconstitution, store aliquots at -20°C. Stock solutions are stable for 6 months when stored as directed.
<b>Quality Control</b>	The purity of KAAD-Cyclopamine was determined by TLC analysis. The accurate mass was determined by mass spectrometry. Cellular toxicity of KAAD-Cyclopamine was tested on mouse embryonic stem cells.

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## Product Specification Sheet

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