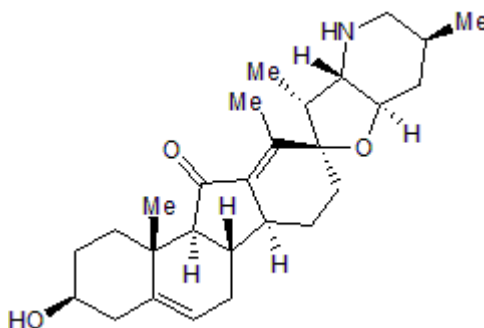


<b>Product Name:</b> Jervine	<b>Catalog No.:</b> 4717	<b>Batch No.:</b> 1
CAS Number: 469-59-0	EC Number: 207-417-9	
IUPAC Name: (2'R,3S,3'R,3'aS,6'S,6aS,6bS,7'aR,11aS,11bR)-2,3,3'a,4,4',5',6,6',6a,6b,7,7',7'a,8,11a,11b-hexadecahydro-3-hydroxy-3',6',10,11b-tetramethyl-Spiro[9H-benzo[a]fluorene-9,2'(3'H)-furo[3,2-b]pyridin]-11(1H)-one		

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>27</sub>H<sub>39</sub>NO<sub>3</sub>·2H<sub>2</sub>O  
**Batch Molecular Weight:** 461.63  
**Physical Appearance:** White solid  
**Solubility:** ethanol to 50 mM  
DMSO to 20 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	70.25	9.39	3.03
Found	70.23	9.26	3.17

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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IUPAC Name: (2'R,3S,3'R,3'aS,6'S,6aS,6bS,7'aR,11aS,11bR)-2,3,3'a,4,4',5',6,6',6a,6b,7,7',7'a,8,11a,11b-hexadecahydro-3-hydroxy-3',6',10,11b-tetramethyl-Spiro[9H-benzo[a]fluorene-9,2'(3'H)-furo[3,2-b]pyridin]-11(1H)-one		

**Description:**

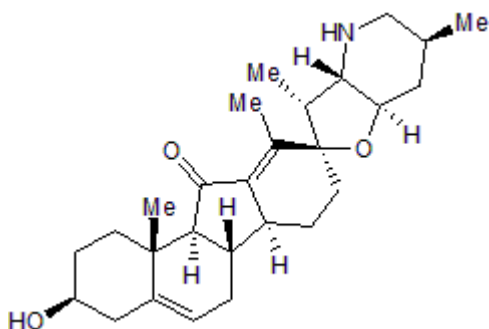
Inhibitor of Hedgehog signaling (IC<sub>50</sub> = 500 - 700 nM); binds directly to Smoothed (Smo). Inhibits the response of target tissues to Sonic hedgehog signaling, possibly via the sterol sensing domain of Patched. Teratogenic.

**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>27</sub>H<sub>39</sub>NO<sub>3</sub>·2H<sub>2</sub>O  
Batch Molecular Weight: 461.63  
Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**References:**

- Cooper et al** (1998) Teratogen-mediated inhibition of target tissue response to *Shh* signaling. *Science* **280** 1603. PMID: 9616123.
- ten Berge et al** (2001) *Prx1* and *Prx2* are upstream regulators of sonic hedgehog and control cell proliferation during mandibular arch morphogenesis. *Development* **128** 2929. PMID: 11532916.
- Williams et al** (2003) Identification of a small molecule inhibitor of the hedgehog signaling pathway: effects on basal cell carcinoma-like lesions. *Proc.Natl.Acad.Sci.USA* **100** 4616. PMID: 12679522.

**Storage:** Store at -20°C

**Solubility & Usage Info:**

ethanol to 50 mM  
DMSO to 20 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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