

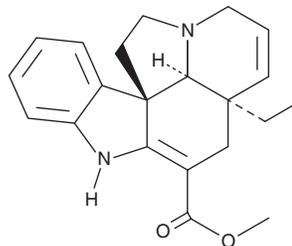
# PRODUCT INFORMATION



## Tabersonine

Item No. 26848

<b>CAS Registry No.:</b>	4429-63-4
<b>Formal Name:</b>	(5 $\alpha$ ,12R,19 $\alpha$ )-2,3,6,7-tetrahydro- aspidospermidine-3-carboxylic acid, methyl ester
<b>Synonym:</b>	(-)-Tabersonine
<b>MF:</b>	C <sub>21</sub> H <sub>24</sub> N <sub>2</sub> O <sub>2</sub>
<b>FW:</b>	336.4
<b>Purity:</b>	≥98%
<b>UV/Vis.:</b>	$\lambda_{\max}$ : 226, 296, 329 nm
<b>Supplied as:</b>	A crystalline solid
<b>Storage:</b>	-20°C
<b>Stability:</b>	≥4 years
<b>Item Origin:</b>	Plant/ <i>Malus</i> nut



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

Tabersonine is supplied as a crystalline solid. A stock solution may be made by dissolving the tabersonine in the solvent of choice, which should be purged with an inert gas. Tabersonine is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of tabersonine in these solvents is approximately 2 mg/ml. Tabersonine is slightly soluble in ethanol.

### Description

Tabersonine is an indole alkaloid that has been found in the beans of *Voacanga*.<sup>1</sup> It inhibits amyloid- $\beta$  (1-42) (A $\beta$ 42) fibril formation and disintegrates preformed A $\beta$ 42 fibrils *in vitro* when used at a concentration of 10  $\mu$ M. Tabersonine is an intermediate in the biosynthesis of vindoline, a precursor in the synthesis of anticancer agents.<sup>2</sup>

### References

1. Kai, T., Zhang, L., Wang, X., *et al.* Tabersonine inhibits amyloid fibril formation and cytotoxicity of A $\beta$ (1-42). *ACS Chem. Neurosci.* **6(6)**, 879-888 (2015).
2. Qu, Y., Easson, M.L.A.E., Froese, J., *et al.* Completion of the seven-step pathway from tabersonine to the anticancer drug precursor vindoline and its assembly in yeast. *Proc. Natl. Acad. Sci. U.S.A.* **112(19)**, 6224-6229 (2015).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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