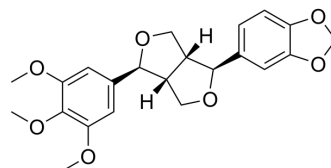


## Aschantin

Cat. No.:	HY-N10754
CAS No.:	13060-15-6
Molecular Formula:	C <sub>22</sub> H <sub>24</sub> O <sub>7</sub>
Molecular Weight:	400.42
Target:	mTOR; Cytochrome P450
Pathway:	PI3K/Akt/mTOR; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Aschantin, a bisepoxy lignan, can be isolated from *Magnolia biondii*. Aschantin has antiplasmodial, Ca<sup>2+</sup>-antagonistic, platelet activating factor-antagonistic, and chemopreventive activities. Aschantin is a mTOR kinase inhibitor. Aschantin is also an inhibitor of Cytochrome P450 and UGT enzyme<sup>[1][2]</sup>.

### REFERENCES

- [1]. Lee CJ, et al. Aschantin targeting on the kinase domain of mammalian target of rapamycin suppresses epidermal growth factor-induced neoplastic cell transformation. *Carcinogenesis*. 2015 Oct;36(10):1223-34.
- [2]. Kwon SS, et al. Inhibitory Effects of Aschantin on Cytochrome P450 and Uridine 5'-diphospho-glucuronosyltransferase Enzyme Activities in Human Liver Microsomes. *Molecules*. 2016 Apr 27;21(5):554.

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

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