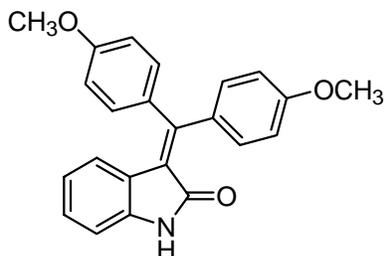


Product Information

TAS-301

Product Number **T 9324**
Store at Room Temperature

Cas #: 193620-69-8
Chemical Name: 3-bis-(4-Methoxyphenyl)methylene-2-indolinone



Product Description

Molecular Formula: C₂₃H₁₉NO₃
Molecular Weight: 357.4

TAS-301, a cell-permeable indolinone compound, has anti-proliferative properties. It is an inhibitor of restenosis.¹ TAS-301 also inhibits migration and proliferation in VSMCs (vascular smooth muscle cells) by blocking voltage-independent Ca²⁺ influx and downstream signals such as Ca²⁺/PKC-signaling pathway, which leads to AP-1 induction and inhibition of cytoskeletal reorganization.¹⁻³

TAS-301 has been reported to inhibit neointimal thickening after balloon injury to porcine coronary and rat carotid arteries.^{1, 2, 4}

Storage/Stability

Store at room temperature, protected from light.

References

1. Muranaka, Y., et al., TAS-301, an inhibitor of smooth muscle cell migration and proliferation, inhibits intimal thickening after balloon injury to rat carotid arteries. *J. Pharmacol. Exp. Ther.*, **285**, 1280-1286 (1998).
2. Sasaki, E., et al., TAS-301, a new synthetic inhibitor of neointimal thickening after balloon injury, inhibits calcium-dependent signal transduction and cytoskeletal reorganization. *Pharmacology*, **63**, 17-27 (2001).
3. Sasaki, E., et al., TAS-301 blocks receptor-operated calcium influx and inhibits rat vascular smooth muscle cell proliferation induced by basic fibroblast growth factor and platelet-derived growth factor. *Jpn. J. Pharmacol.*, **84**, 252-258 (2000).
4. Sasaki, E., et al., Inhibitory effect of TAS-301, a new synthesized constrictive remodeling regulator, on renarrowing after balloon overstretch injury of porcine coronary artery. *J. Pharmacol. Exp. Ther.*, **295**, 1043-1050 (2000).

KAA 03/04

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