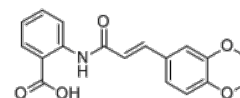


**Product Name** : Tranilast  
**Cat. No.** : PC-70135  
**CAS No.** : 53902-12-8  
**Molecular Formula** : C<sub>18</sub>H<sub>17</sub>NO<sub>5</sub>  
**Molecular Weight** : 327.33  
**Target** : TRP Channel  
**Solubility** : 10 mM in DMSO



### Biological Activity

Tranilast (MK-341) is a compound that exhibits anti-inflammatory and immunomodulatory effects by inhibiting lipid mediator and cytokine release from inflammatory cells and interfering with PDGF- and TGF-β1-induced proliferation and migration of vascular medial smooth muscle cells.

Tranilast (MK-341) is an inhibitor of calcium-permeable **TRPV2** channel, inhibits insulin increased calcium entry in beta-cells.

Tranilast inhibits endotoxin-induced PGE2 (IC<sub>50</sub>=1-20 uM), thromboxane B2 (IC<sub>50</sub>= 10-50 uM), TGF-β1 (IC<sub>50</sub>=100-200 uM), and IL-8 (IC<sub>50</sub>=100 uM) formation, but has no effect on TNF-α.

Tranilast also inhibits VEGF-induced angiogenetic activities.

Tranilast also is an inhibitor of the transcription factor Forkhead box O-1 (FoxO-1).

### References

Capper EA, et al. *J Pharmacol Exp Ther.* 2000 Dec;295(3):1061-9.

Ikai K, et al. *Biochem Pharmacol.* 1989 Aug 15;38(16):2673-6.

Koyama S, et al. *Br J Pharmacol.* 1999 May;127(2):537-45.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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