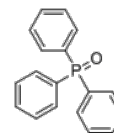


**Product Name** : Triphenylphosphine oxide  
**Cat. No.** : PC-20366  
**CAS No.** : 791-28-6  
**Molecular Formula** : C<sub>18</sub>H<sub>15</sub>OP  
**Molecular Weight** : 278.29  
**Target** : TRP Channel  
**Solubility** : 10 mM in DMSO



### Biological Activity

Triphenylphosphine oxide (TPPO) is a selective and potent inhibitor of **TRPM5** with IC<sub>50</sub> of 12 and 30  $\mu$ M for human and murine TRPM5 heterologously expressed in HEK293 cells.

TPPO displays no effect (up to 100  $\mu$ M) on the membrane potential responses of TRPA1, TRPV1, or TRPM4b.

TPPO inhibited a calcium-gated TRPM5-dependent conductance in taste cells isolated from the tongues of transgenic TRPM5(+/-) mice.

### References

Palmer RK, et al. *Assay Drug Dev Technol.* 2010 Dec;8(6):703-13.

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

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