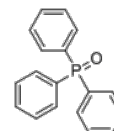


**Product Name** : Triphenylphosphine oxide  
**Cat. No.** : PC-20366  
**CAS No.** : 791-28-6  
**Molecular Formula** : C<sub>18</sub>H<sub>15</sub>OP  
**Molecular Weight** : 278.29  
**Target** : TRP Channel  
**Solubility** : 10 mM in DMSO



## Biological Activity

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

TPPO displays no effect (up to 100 μM) 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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