

Data Sheet

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 Product Name
 :
 TPI-1

 Cat. No.
 :
 PC-42166

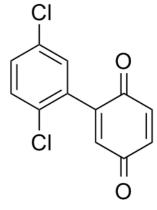
 CAS No.
 :
 79756-69-7

 Molecular Formula
 :
 C₁₂H₆Cl₂O₂

 Molecular Weight
 :
 253.0808

Target : Protein Phosphatase/PTP

Solubility : 10 mM in DMSO



Biological Activity

TPI-1 is a potent and selective, orally-active protein tyrosine phosphatases **SHP-1** inhibitor with IC50 of 40 nM (0.01 ug/ml).

TPI-1 has limited impact on recombinant MKP1 (IC50> 1 ug/ml) or SHP-2 (IC50 ~ 0.1 ug/ml).

TPI-1 selectively increases SHP-1 phospho-substrates (pLck-pY394, pZap70, and pSlp76) in Jurkat T cells at low nM, does not affect pLck-pY505 or pERK1/2.

TPI-1 induces mouse splenic-IFN-gamma(+) cells, also induces IFN-γ(+) cells in human peripheral blood in vitro.

TPI-1 inhibits the growth of B16 melanoma tumors in mice in a T cell-dependent manner.

References

Kundu S, et al. *J Immunol*. 2010 Jun 1;184(11):6529-36.

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

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