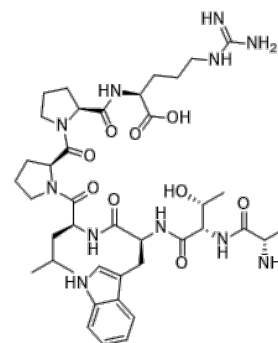


Product Name : ATWLPPR peptide
Cat. No. : PC-27813
CAS No. : 272121-15-0
Molecular Formula : C₄₀H₆₁N₁₁O₉
Molecular Weight : 839.98
Target : VEGFR
Solubility : 10 mM in DMSO

Ala-Thr-Trp-Leu-Pro-Pro-Arg



Biological Activity

ATWLPPR peptide (A7R, Ala-Thr-Trp-Leu-Pro-Pro-Arg) is a specific heptapeptide **NRP-1 (Neuropilin 1, NRP1)** inhibitor and effective antagonist of the **VEGF165** binding to NRP-1 with IC₅₀ of 5.9 μM blocks vascular endothelial growth factor (VEGF)-mediated angiogenesis.

ATWLPPR completely abolished VEGF binding to cell-displayed kinase domain receptor (KDR/FLK1 or VEGFR-2).

ATWLPPR inhibits VEGF-mediated proliferation of human vascular endothelial cells, in a dose-dependent and endothelial cell type-specific manner.

ATWLPPR totally abolishes VEGF-induced angiogenesis in a rabbit corneal model.

References

Binétruy-Tournaire R, et al. *EMBO J.* 2000 Apr 3;19(7):1525-33.

Rodrigues S, et al. *FASEB J.* 2003 Jan;17(1):7-16.

Tymecka D, et al. *Eur J Med Chem.* 2018 Oct 5;158:453-462.

Starzec A, et al. *Peptides.* 2007 Dec;28(12):2397-402.

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

E-mail: tech@probechem.com