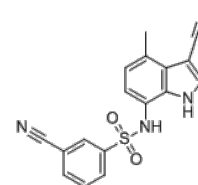


Product Name : E7820
Cat. No. : PC-20146
CAS No. : 289483-69-8
Molecular Formula : C₁₇H₁₂N₄O₂S
Molecular Weight : 336.37
Target : Integrin
Solubility : 10 mM in DMSO



Biological Activity

E7820 (E-7820) is a unique, oral sulfonamide derivative angiogenesis inhibitor, inhibits integrin α₂ (ITGA2) mRNA expression and suppresses tube formation through the suppression of integrin alpha₂.

E7820 inhibited in vitro proliferation and tube formation of human umbilical vascular endothelial cell (HUVEC).

E7820 decreased integrin alpha₂, 3, 5, and beta₁ in confluent culture of HUVEC, and integrin alpha₂ was initially suppressed in mRNA level, followed by decrement of integrins alpha₃, 5, and beta₁.

E7820 reduced integrin alpha₂ expression on a megakaryocytic cell line, Dami cells, induced by phorbol 12-myristate 13-acetate treatment.

Oral administration of E7820 significantly inhibited basic fibroblast growth factor-induced angiogenesis in Matrigel implants and human colon WiDr tumor-induced angiogenesis in a dorsal air sac model.

E7820 showed a broad-spectrum antitumor effect in mice through inhibition of angiogenesis.

References

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

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