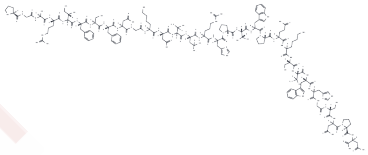
Data Sheet (Cat.No.TP2245)

TargetMol

Endostatin (84-114)-NH2 (JKC367)

Chemical Properties



CAS No. :

Formula: C161H236N48O43

Molecular Weight: 3531.9

Storage: Keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Endostatin is a potent inhibitor of primary tumor growth and endothelial cell proliferation and migration. Recombinant endostatin potently inhibited angiogenesis, maintains metastases at a low level, and suppressed tumors, a reduction of over 150-fold. Endostatin showed no toxicity to mice, no evidence of drug resistance, and no regrowth of tumors.
Targets(IC50)	Others
In vitro	Endostatin and TNP-470 treatments inhibited atherosclerosis by 85% and 70%, respectively. Either treatment significantly inhibited plaque growth, but the degree of inhibition by endostatin was less than that by TNP-470. Significant inhibition of plaque growth by endostatin or TNP-470 was seen even when the treatment was delayed until 32 weeks, although the degree of inhibition was smaller. Both endostatin and TNP-470 are reversible inhibitors of endothelial cell proliferation and appear to exert few effects on quiescent nonproliferating endothelium. Endostatin administered continuously into the peritoneal cavity by a mini-osmotic pump is 50% more effective in tumor suppression than the same dose administered once a day i.p. [1].
In vivo	Furthermore, we show that a 10-fold lower dose, when given continuously, will accomplish the same tumor suppression as a single dose given i.p daily. Finally, we show that only continuous dosing can achieve tumor regression with human soluble endostatin. Endostatin retains biological activity in the osmotic pump for at least 7 days. Importantly, the endostatin does not undergo any obvious proteolytic degradation within an i.p. implanted pump. Soluble recombinant mouse endostatin has shown efficacy against a human renal carcinoma in mice when given i.p as a single bolus dose of 10 -20 mg/kg/day. However, only 30% of the animals in the treated group demonstrated tumor regression [3].

Solubility Information

Solubility	DMSO: ≥353.2 mg/mL,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2831 mL	1.4157 mL	2.8313 mL
5 mM	0.0566 mL	0.2831 mL	0.5663 mL
10 mM	0.0283 mL	0.1416 mL	0.2831 mL
50 mM	0.0057 mL	0.0283 mL	0.0566 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.