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Zuschläge

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kallistatin (h): 293T Lysate: sc-170067

BACKGROUND

Kallistatin, also known as serpin A4, kallikrein inhibitor and protease inhibitor 4 (PI 4), is a member of the serpin family and was first identified as a kallikrein-binding protein. It is expressed in vascular smooth muscle cells and endothelial cells. Kallistatin functions as a serine proteinase inhibitor and a heparin-binding protein and is involved in blood pressure regulation, vasculature relaxation, protection against inflammation and stimulation of neointima hyperplasia. It also acts as a negative regulator of angiogenesis by blocking the cellular response to VEGF and bFGF heparin binding proteins (two major angiogenic stimulators). Kallistatin may compete with VEGF and bFGF binding to heparin-sulfate proteoglycans via its heparin binding domain. In addition, its anti-angiogenesis and anti-inflammatory activity may play an important role in the inhibition of tumor growth and arthritis.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SERPINA4 (human) mapping to 14q32.13.

PRODUCT

kallistatin (h): 293T Lysate represents a lysate of human kallistatin transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

APPLICATIONS

kallistatin (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive kallistatin antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.