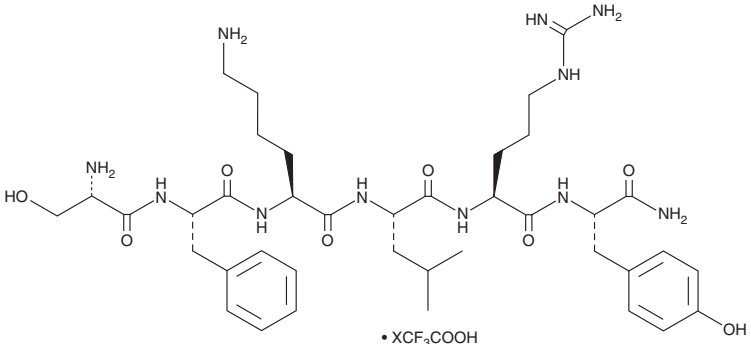
PRODUCT INFORMATION

Angio-S (trifluoroacetate salt)

Item No. 45961

Formal Name:	L-seryl-L-phenylalanyl-L-lysyl-L-leucyl-L-arginyl-L-tyrosinamide, trifluoroacetate salt
Synonym:	Ser-Phe-Lys-Leu-Arg-Tyr-NH_2
Peptide Sequence:	SFKLRY-NH_2
MF:	$C_{39}H_{61}N_{11}O_8 \bullet XCF_3COOH$
FW:	812.0
Purity:	≥95%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Angio-S (trifluoroacetate salt) is supplied as a solid. A stock solution may be made by dissolving the Angio-S (trifluoroacetate salt) in the solvent of choice, which should be purged with an inert gas. Angio-S (trifluoroacetate salt) is soluble (≥10 mg/ml) in ethanol and sparingly soluble (1-10 mg/ml) in DMSO.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of Angio-S (trifluoroacetate salt) can be prepared by directly dissolving the solid in aqueous buffers. Angio-S (trifluoroacetate salt) is soluble (≥10 mg/ml) in PBS (pH 7.2). We do not recommend storing the aqueous solution for more than one day.

Description

Angio-S is an angiogenic and antioxidative hexapeptide.[1,2] It induces calcium mobilization in MS1 murine endothelial cells (EC_{50} = 1.21 µM) and induces proliferation, migration, and tube formation of human umbilical vein endothelial cells HUVECs.[1] Angio-S scavenges free radicals in a Trolox equivalent absorbance capacity (TEAC) assay, rescues tert-butyl hydroperoxide-induced decreases in superoxide dismutase (SOD) and glutathione peroxidase (GPX) activities in primary human dermal fibroblasts, and decreases melanin content in, but is not cytotoxic to, B16 melanoma cells.[2]

References

1. Lee, C.H., Lee, M.S., Kim, S.J., *et al.* Identification of novel synthetic peptide showing angiogenic activity in human endothelial cells. *Peptides* **30(2)**, 409-418 (2009).
2. Lee, S.-J., Park, S.G., Chung, H.-M., *et al.* Antioxidant and anti-melanogenic effect of the novel synthetic hexapeptide (SFKLRY-NH_2). *Int. J. Pept. Res. Ther.* **15**, 281-286 (2009).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
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