PRODUCT INFORMATION

Urumin (trifluoroacetate salt)

Item No. 24277

MF:	$C_{129}H_{198}N_{42}O_{35}S_2 \bullet XCF_3COOH$
FW:	2,961.4
Purity:	≥90%
Supplied as:	A lyophilized powder
Storage:	-20°C
Stability:	≥4 years

H–Ile–Pro–Leu–Arg–Gly–Ala–Phe–Ile–Asn–Gly–Arg–Trp–Asp–Ser–Gln–Cys–His–Arg–Phe–Ser–Asn–Gly–Ala–Ile–Ala–Cys–Ala–OH

• XCF_3COOH

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

Laboratory Procedures

Urumin (trifluoroacetate salt) is supplied as a lyophilized powder. A stock solution may be made by dissolving the urumin (trifluoroacetate salt) in water. The solubility of urumin (trifluoroacetate salt) in water is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Urumin is a peptide originally isolated from *H. bahuvistara* (South Indian frog) skin that has antiviral activity.[1] It inhibits H1 hemagglutinin-containing human influenza A viruses by 60 to >90% and H3 hemagglutinin-containing viruses by less than 50%. Urumin specifically targets the H1 hemagglutinin stalk in an antiviral assay using a chimeric virus and in an ELISA assay and acts by actively destroying influenza virions. It reduces viral titers of drug-resistant and -sensitive strains of H1N1 virus in a plaque assay and in mice. Intranasal administration of urumin (20 µg) prior to a lethal dose of PR8 influenza increases survival, with 70% of urumin-treated mice surviving after 14 days compared with 20% of control animals.

Reference

1. Holthausen, D.J., Lee, S.H., Kumar, V.T.V., *et al.* An amphibian host defense peptide is virucidal for human H1 hemagglutinin-bearing influenza viruses. *Immunity* **46(4)**, 587-595 (2017).

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