

Product Name: Urumin (trifluoroacetate salt)
Cat. No.: GC48231

Cas. No. N/A

SMILES [H]N[C@]([C@H](CC)C)([H])C(N1CCC[C@H]1C(N[C@@H](CC(C)C)C(N[C@@H](CC(C)N)C(NCC(N[C@H](C(N[C@H](C(N[C@]([C@H](CC)C)([H])C(N[C@@H](CC(N)=O)C(NCC(N[C@@H](CCCNC(N)=N)C(N[C@H](C(N[C@H](C(N[C@@H](CO)C(N[C@@H](CCC(N)=O)C(N[C@H](C(N[C@H](C(N[C@@H](CCCNC(N)=N)C(N[C@H](C(N[C@@H](CO)C(N[C@@H](CC(N)=O)C(NCC(N[C@H](C(N[C@]([C@H](CC)C)([H])C(N[C@H](C(N[C@H](C(N[C@H](C(O)=O)C)=O)CS)=O)C)=O)=O)C)=O)=O)=O)CC2=CC=CC=C2)=O)=O)CC3=CN=CN3)=O)CS)=O)=O)=O)CC(O)=O)=O)CC4=CNC5=C4C=CC=C5)=O)=O)=O)=O)CC6=CC=CC=C6)=O)C)=O)=O)=O)=O)O.FC(F)(C(O)=O)F

Formula	C129H198N42O35S2• XCF3COOH	M.Wt	0
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Solubility	Water: 1 mg/ml	Storage	Store at -20°C
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General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
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Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.
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Structure

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

• XCF₃COOH

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

Caution: Product has not been fully validated for medical applications. For research use only.

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Product Data Sheet

of PR8 influenza increases survival, with 70% of urumin-treated mice surviving after 14 days compared with 20% of control animals.

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 virusesImmunity46(4)587-595(2017)

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