

Cat. No.: GC47437

Cas. No. N/A

SMILES [H]N[C@H](C(N[C@H](C(N1CCC[C@H]1C(N[C@@H](CCCNC(N)=N)C(NCC(N[C@H](C(N[C@@H](CO)C(N[C@H](C(N[C@@H](CC(C)C)C(N[C@@H](CC(C)C)C(N[C@@H](CC(C)C)C(N[C@@H](CC(C)C)C(N[C@@H](CC(C)C)C(N[C@]([C@@H](C)O)([H])C(N[C@@H](CO)C(N[C@@H](CCC(O)=O)C(N[C@]([C@H](CC)C)([H])C(N[C@H](C(N[C@@H](CC(C)C)C(N2CC[C@H]2C(N[C@@H](C(C)C)C(N[C@@H](CCCCN)C(N[C@@H](CCCNC(N)=N)C(N[C@@H](CCCNC(N)=N)C(N[C@H](C(O)=O)C)=O)=O)=O)=O)=O)=O)CC(O)=O)=O)=O)=O)=O)=O)=O)=O)=O)CS)=O)=O)CC3=CC=CC=C3)=O)=O)=O)C)=O)CCSC.OCC(F)(F)F)=O

Formula	C119H204N34O32S2.XCF3COOH	M.Wt	2687.2
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Solubility	Formic Acid: 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—Met—Ala—Pro—Arg—Gly—Phe—Ser—Cys—Leu—Leu—
Leu—Leu—Thr—Ser—Glu—Ile—Asp—Leu—Pro—Val—
Lys—Arg—Arg—Ala—OH

• XCF₂COOH

Humanin is a neuroprotective peptide.¹ It completely blocks amyloid- β (1-42) (A β 42) and A β 43-induced cell death of primary cortical neurons when used at a concentration of 10 μ M. Humanin also prevents amyloid precursor protein (APP) antibody-induced cell death and reduces neurotoxicity in FH11 cells induced by the APP mutants A617G-APP, L648P-APP, V642I-APP, and NL-APP, which are associated with familial Alzheimer's disease (IC₅₀s = 0.1-1 μ M). *In vivo*, humanin (0.375 mg/kg per hour) increases systemic insulin sensitivity and enhances glucose uptake in skeletal muscle of

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

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Product Data Sheet

rats.²

1.Hashimoto, Y., Niikura, T., Ito, Y., et al.Detailed characterization of neuroprotection by a rescue factor humanin against various Alzheimer's disease-relevant insultsJ. Neurosci.21(23)9235-9245(2001) 2.Muzumdar, R.H., Huffman, D.M., Atzmon, G., et al.Humanin: A novel central regulator of peripheral insulin actionPLoS One4(7)e6334(2009)

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