

Product Data Sheet

Product Name: Nesiritide (acetate)

Cat. No.: GC49301

Chemical Properties

Cas. No. 1684439-46-0

SMILES CC(O)=O.O=C(N1CCC[C@H]1C(N[C@@H](CCCCN[H])C(N[C@@H](CCSC)C(N[C@@H](C(C)C)C(N[C@@H](CCC(N)=O)C(NCC(N[C@@H](CO)C(NCC(N[C@@H](CSSC[C@H](N2)C(N[C@@H](CCCCN[H])C(N[C@@H](C(C)C)C(N[C@H](C(N[C@@H](CC CNC(N)=N)C(N[C@@H](CCCNC(N)=N)C(N[C@@H](CC3=CNC=N3)C(O)=O)=O)=O)CC(C)C)=O)=O)=O)C(N[C@H](C(NCC(N[C@@H](CCCNC(N)=N)C(N[C@@H](CCC CN[H])C(N[C@@H](CCSC)C(N[C@@H](CC(O)=O)C(N[C@@H](CCCNC(N)=N)C(N[C@@H](C(N[C@@H](CO)C(N[C@@H](CO)C(N[C@@H](CO)C(N[C@@H](CO)C(NCC(N [C@H](C(NCC2=O)=O)CC(C)C)=O)=O)=O)=O)=O)=O)=O)([H])[C@@H](C)CC)=O)=O)=O)=O)=O)=O)CC4=CC=CC=C4)=O)=O)=O)=O)=O)=O)=O)[C@H](CO)N[H]

Formula	C143H244N50O42S4·C2H4O2	M.Wt	3524.1
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Solubility	Water: soluble	Storage	-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—Ser—Pro—Lys—Met—Val—Gln—Gly—Ser—Gly—Cys—Phe—
 Gly—Arg—Lys—Met—Asp—Arg—Ile—Ser—Ser—Ser—Ser—
 Gly—Leu—Gly—Cys—Lys—Val—Leu—Arg—Arg—His—OH
 • CH₃CO₂H

Background

Nesiritide is a 32-amino acid natriuretic peptide and recombinant form of human brain natriuretic peptide.¹ It increases *ex vivo* vasorelaxation induced by the calcium ionophore A23187 in porcine hearts isolated from a model of acute coronary occlusion when administered as a 2 µg/kg bolus dose followed by 0.01 µg/kg per minute infusion.² Formulations containing nesiritide have previously been used in the treatment of congestive heart failure.

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

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1. Hobbs, R.E., and Mills, R.M. Therapeutic potential of nesiritide (recombinant b-type natriuretic peptide) in the treatment of heart failure Expert Opin. Investig. Drugs 8(7)1063-1072(1999)
2. Lazar, H.L., Bao, Y., Siwik, D., et al. Nesiritide enhances myocardial protection during the revascularization of acutely ischemic myocardium J. Card. Surg. 24(5)600-605(2009)

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