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Typical Product Specifications & Properties

Hyaluronic Acid

CAS Number: : 9004-61-9

Specifications	Limits
Color	White to Off-White powder
Protein	NMT 0.1%
Yeast and Mold	NMT 500 cfu/g
E. Coli	Negative
Heavy Metals	NMT 20 ppm
Assay	NLT 99.00%
Glucuronic Acid	42 - 50%
Total Plate Count	NMT 5,000 cfu/g
Odor	Odorless
Moisture	NMT 10%
Salmonella	Negative
Chemical Structure	 chemicalStructure-hyaluronic-acid



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Specifications	Limits
Systematic IUPAC Name	(2S,4S,5R,6S)-6-[(2S,3R,5S,6R)-3-acetamido-2-[(3S,4R,5R,6R)-6-[(2-(hydroxymethyl)-3,6-bis(oxidanyl)oxan-4-yl]oxy-2-carboxy-4,5-(hydroxymethyl)-5-oxidanyl-oxan-4-yl]oxy-3,4,5-tris(oxidanyl)oxa
Traditional IUPAC Name	(2S,4S,5R,6S)-6-[(2S,3R,5S,6R)-3-acetamido-2-[(3S,4R,5R,6R)-6-[(2,5-dihydroxy-6-methylol-tetrahydropyran-4-yl]oxy-2-carboxy-4,5-3-yl]oxy-5-hydroxy-6-methylol-tetrahydropyran-4-yl]oxy-3,4,5-trihydroxy carboxylic acid
Standard InChI	InChI=1S/C28H44N2O23/c1-5(33)29-9-18(11(35)7(3-31)47-25(9 17(41)15(39)20(22(53-28)24(44)45)51-26-10(30-6(2)34)19(12(3 16(40)13(37)14(38)21(52-27)23(42)43/h7-22,25-28,31-32,35-41, (H,30,34)(H,42,43) (H,44,45)/t7-,8-,9-,10-,11-,12-,13+,14?,15-,16-,17-,18-,19?,20+,21+
Standard InChIKey	KIUKXJAPPMFGSW-YXBJCWEESA-N
Molecular weight	
CAS-like Style IUPAC Name	(2S,4S,5R,6S)-6-[[[(2S,3R,5S,6R)-3-acetamido-2-[[[(3S,4R,5R,6R)-6-acetamido-2,5-dihydroxy-6-(hydroxymethyl)-4-oxanyl]oxy]-2-carboxanyl]oxy]-5-hydroxy-6-(hydroxymethyl)-4-oxanyl]oxy]-3,4,5-trihydroxy acid
Preferred IUPAC Name	(2S,4S,5R,6S)-6-[(2S,3R,5S,6R)-3-acetamido-2-[(3S,4R,5R,6R)-6-[(2,5-dihydroxy-6-(hydroxymethyl)oxan-4-yl]oxy-2-carboxy-4,5-dihydroxy-6-(hydroxymethyl)oxan-4-yl]oxy-3,4,5-trihydroxyoxane-2-
XLogP3-AA Log P	-7.4
Molecular Weight	776.6
Specifications	Limits

Compound Complexity 1300

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Hydrogen

Bond

Acceptor

Count

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Count 14



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Specifications	Limits
Rotatable Bond Count	12
Isomeric SMILES	<chem>CC(=O)N[C@@H]1[C@H]([C@@H]([C@H](OC1O)CO)O)O[C@H]([C@H](O3)CO)O)O[C@@H]4[C@@H]([C@H](C([C@H](O4)C</chem>
Polar Surface Area	    
Topological	
Monoisotopic Weight	776.23348565
Molecular Formula	C28H44N2O23

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