

## Product Information

### Chitosan oligosaccharide lactate

**Cat. No.:** X23-09-YW035

**Size:** 1 g; 10 g; Bulk

**MDL:** MFCD02097973

**CAS Number:** 148411-57-8

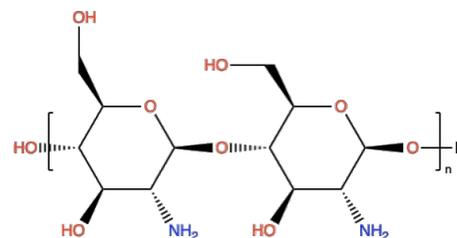
**PubChem Substance ID:** 24874360

**PubChem CID:** 16213812

**NACRES:** NA.23

**Synonym:** Polyvinylsulfuric acid potassium salt; Beta-D-glucosaminyl-(1-4)-beta-D-glucosamine;  
2-Amino-4-O-(2-amino-2-deoxy-beta-D-glucopyranosyl)-2-deoxy-beta-D-glucopyranose

**This product is for research use only and is not intended for diagnostic use.**



### Product Information

<b>Description</b>	Chitosan oligosaccharide lactate (60% oligosaccharide) is a modified chitosan derivative. Its lactate groups impart solubility in water, making it useful in cosmetics, pharmaceuticals, and wound dressings due to its antimicrobial and biocompatible properties. And its viscosity is <200 cP.
<b>Molecular Weight</b>	4~6 kDa
<b>Molecular Formula</b>	$(C_{12}H_{24}N_2O_9)_n$
<b>IUPAC Name</b>	(2R,3S,4R,5R,6S)-5-Amino-6-[(2R,3S,4R,5R,6R)-5-amino-4,6-dihydroxy-2-(hydroxymethyl)oxan-3-yl]oxy-2-(hydroxymethyl)oxane-3,4-diol
<b>InChI</b>	InChI=1S/C12H24N2O9/c13-5-9(19)10(4(2-16)21-11(5)20)23-12-6(14)8(18)7(17)3(1-15)22-12/h3-12,15-20H,1-2,13-14H2/t3-,4-,5-,6-,7-,8-,9-,10-,11-,12+/m1/s1
<b>InChI Key</b>	QLTSDROPCWIKKY-PMCTYKHCSA-N
<b>Canonical SMILES</b>	C(C1C(C(C(C(O1)OC2C(OC(C(C2O)N)O)CO)N)O)O)O
<b>Isomeric SMILES</b>	C([C@@H]1[C@H]([C@@H]([C@H]([C@@H](O1)O[C@@H]2[C@H](O[C@H]([C@@H]([C@H]2O)N)O)CO)N)O)O)O
<b>Source</b>	Crustacean shell
<b>Form</b>	Reported
<b>Purity</b>	Reported, >90% deacetylated.



**Applications**

Chitosan oligosaccharide lactate can be used in water treatment for organic and heavy metal pollution, biomedical devices, biodegradable packaging, water permeable fabric finishing, and cosmetics.

**Storage**

Store at 4°C.

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