

## kappa-Carrageenan Biochemical

kappa-Carrageenan

CATALOG #  
AAA227462

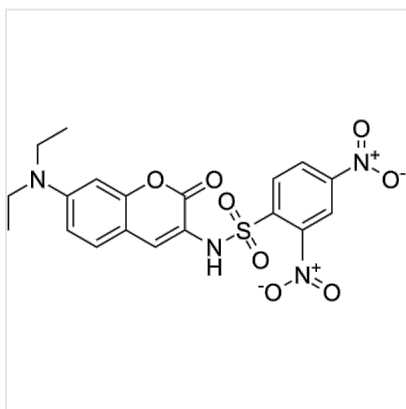
### PRODUCT SYNONYMS

kappa-Carrageenan; kappa-Carrageenan biochemical

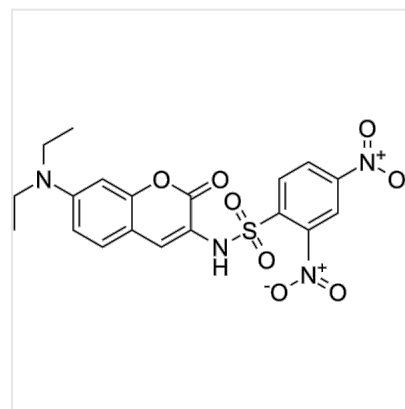
### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purity/Purification     | 98%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| CAS                     | 11114-20-8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Solubility              | <1mg/ml refers to the product slightly soluble or insoluble                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| In vitro                | kappa-Carrageenan (1.7-41.7 mg/kg; p.o. for 1 week prior to C. freundii DBS100 treatment) can synergistically activate LPS-induced inflammatory through the Bcl10-NF-kappaB pathway, as indicated by its aggravation of C. freundii DBS100-induced colitis in mice[2]. kappa-Carrageenan enhances the C. freundii DBS100-dependent induction of TLR4 and NF-kappaB in the intestinal mucosa of infected mice[2]. kappa-Carrageenan aggravates the TNBS-induced intestinal inflammation, and such an effect could be associated with the oxidative stress and activation of TLR4-NF-kappaB and MAPK/ERK1/2 pathway[3]Animal Model: Male and female NIH (s) mice[2]. Dosage: 1.7 mg/kg, LOW; 8.3mg/kg, MED; or 41.7 mg/kg, HIGH. Administration: Orally administered for 1 week prior to C. freundii DBS100 treatment. Result: Enhanced the C. freundii DBS100-dependent induction of TLR4 and NF-kappaB in the intestinal mucosa of infected mice. |
| Preparation and Storage | Powder: -20 degree C for 3 years<br>In solvent: -80 degree C for 2 years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

### IMAGES



Structure  
Sel-green, CAS 1574299-37-8



Structure  
Sel-green, CAS 1574299-37-8

### ADDITIONAL INFORMATION

#### Related Product Information for kappa-Carrageenan biochemical

kappa-Carrageenan is a natural polymer which predominantly available in red seaweeds. kappa-Carrageenan is an effective drug carrier to deliver curcumin in cancer cells and to induce apoptosis. kappa-carrageenan serves as a potential inflammatory agent that magnifies existing intestinal inflammation.

## References

1. Baoxin Zhang, et al. Selective selenol fluorescent probes: design, synthesis, structural determinants, and biological applications. J Am Chem Soc. 2015 Jan 21;137(2):757-69.

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/biochemical/kappa-carrageenan/227462>