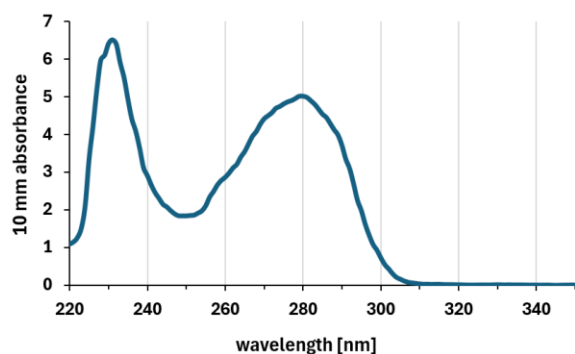


Certificate of analysis

Product number: GL-010
Product name: RSL lectin produced recombinantly in *E. coli*, unconjugated
Form: Lyophilized powder
Unit size: 1 mg, 5 mg, 10 mg
LOT number: 13057

General quality test

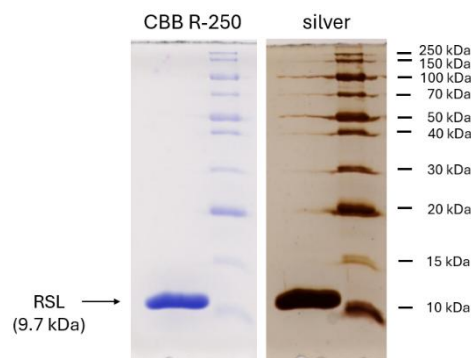
UV spectrometry, 1.10 mg/ml



$$A_{260}/A_{280} = 0.57$$

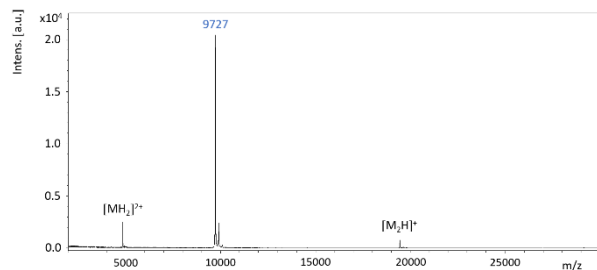
Purity

SDS-PAGE, 15% gel, 8.3 µg loaded



Identity

Intact mass analysis (MALDI-TOF)

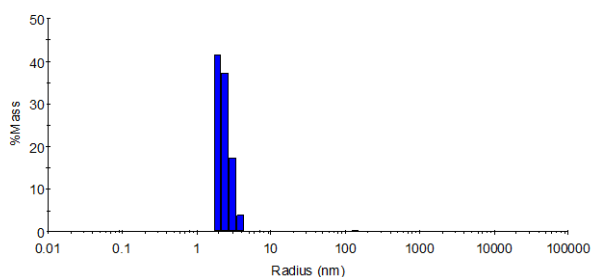


Molar mass (theoretical): 9727 Da

Molar mass (MS): 9727 Da

Homogeneity

Dynamic light scattering (DLS), 1.7 mg/ml, 25 °C

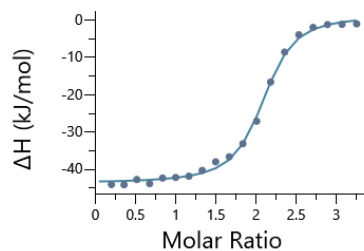
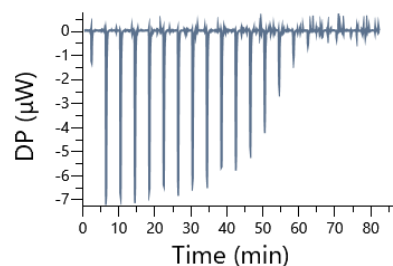


$R_h = 2.4$ nm (in 20 mM Tris, 150 mM NaCl, pH 7.4)

Activity

Isothermal titration calorimetry (ITC), 25 °C

RSL, 60 µM (cell) + αMeFuc, 955 µM (syringe), in 20 mM Tris, 150 mM NaCl, pH 7.4



$N = 2.02$

$K_d = 1.1$ µM

$\Delta H = -44.7$ kJ/mol

$\Delta G = -34.2$ kJ/mol

$-T\Delta S = 10.6$ kJ/mol

(apparent thermodynamic values,
no blank subtraction)