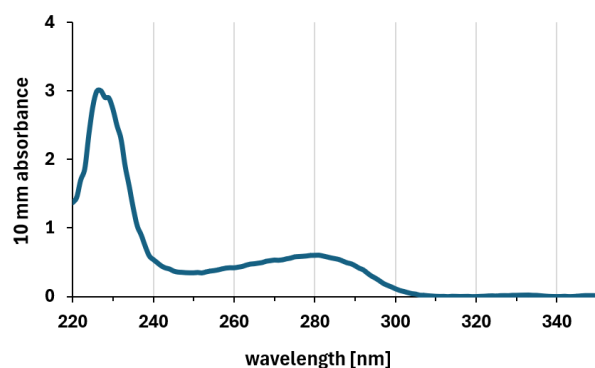


Certificate of analysis

Product number: GL-007
Product name: PA-IIL lectin produced recombinantly in *E. coli*, unconjugated
Form: Lyophilized powder
Unit size: 1 mg, 5 mg, 10 mg
LOT number: 15750

General quality test

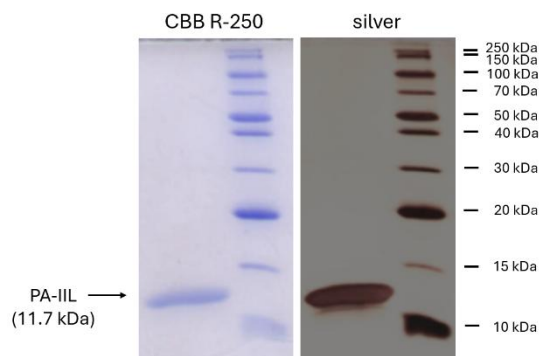
UV spectrometry, 0.98 mg/ml



$$A_{260}/A_{280} = 0.71$$

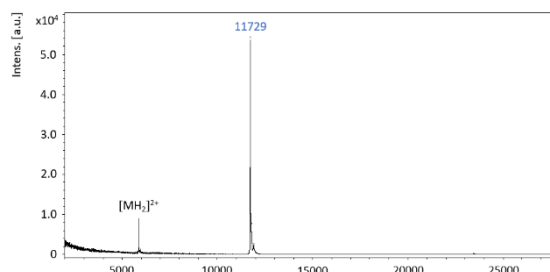
Purity

SDS-PAGE, 15% gel, 8.3 µg loaded



Identity

Intact mass analysis (MALDI-TOF)

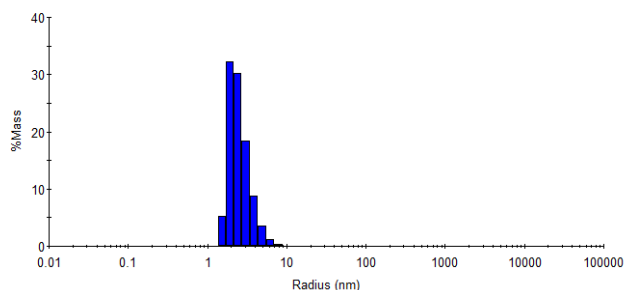


Molar mass (theoretical): 11733 Da

Molar mass (MS): 11729 Da

Homogeneity

Dynamic light scattering (DLS), 1.8 mg/ml, 25 °C

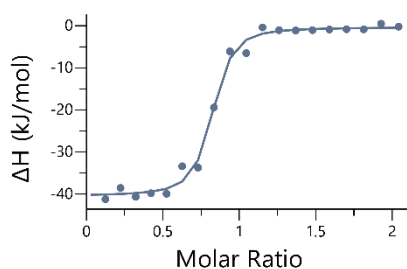
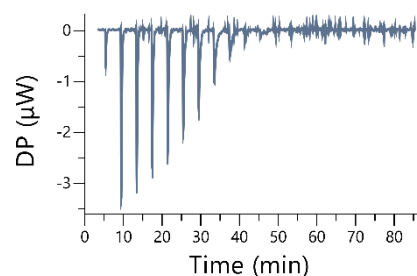


$R_h = 2.6$ nm (in 20 mM Tris, 150 mM NaCl, 3 mM CaCl₂, pH 7.4)

Activity

Isothermal titration calorimetry (ITC), 25 °C

PA-IIL, 60 µM (cell) + αMeFuc, 600 µM (syringe), in 20 mM Tris, 150 mM NaCl, 3 mM CaCl₂, pH 7.4



$N = 0.77$

$K_d = 0.3$ µM

$\Delta H = -40.0$ kJ/mol

$\Delta G = -37.2$ kJ/mol

$-T\Delta S = 2.7$ kJ/mol

(apparent thermodynamic values,
no blank subtraction)