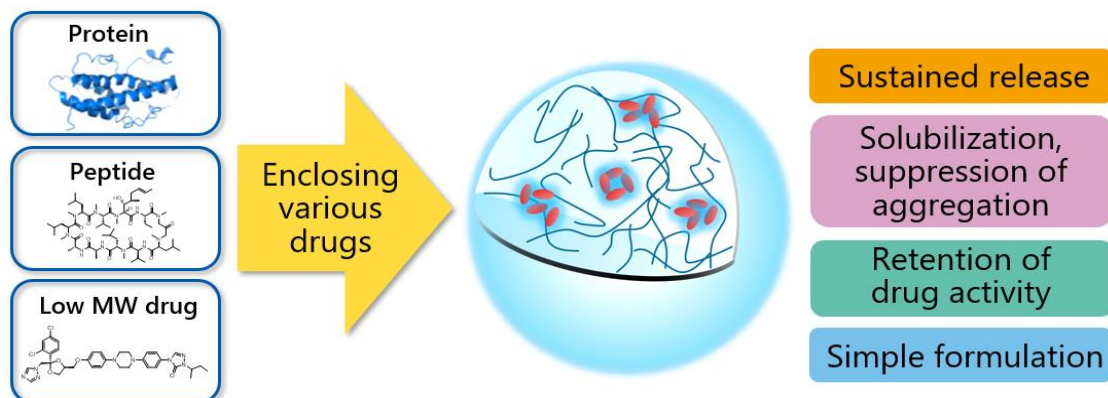


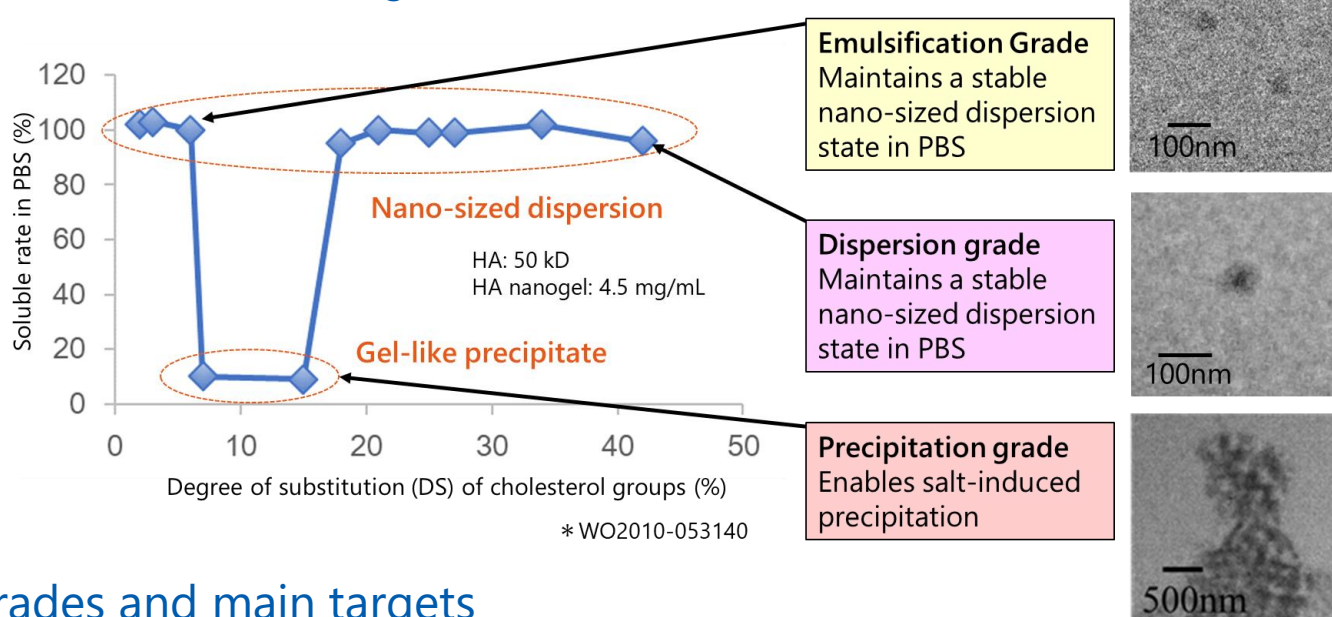
Hyaluronic acid nanogel (HA nanogel)

Key functions of HA nanogel



Unique salt-responsive precipitation property

Soluble rate of HA nanogel in PBS



Grades and main targets

Grade	Emulsification Grade	Precipitation grade	Dispersion grade
Main target	Particle surface coating	Sustained release of biologics	Solubilization of poorly water-soluble drugs
MW of HA	5 – 20 kD	25 – 40 kD	5 – 20 kD
DS of cholesterol	5 – 10 unit mol %	10 – 20 unit mol %	30 – 50 unit mol %
Particle size (PDI)	20 – 50 nm (0.3)	50 – 100 nm (0.3)	20 – 50 nm (0.3)
Expected functions	<ul style="list-style-type: none"> Emulsification of drug particles 	<ul style="list-style-type: none"> <i>In situ</i> depot sustained release Retained biological activity Inhibition of aggregation High loading capacity (20–40 w/w%) 	<ul style="list-style-type: none"> Improvement of solubility Inhibition of aggregation High loading capacity (5–15 w/w%)