2.3 Quality Overall Summary

2.3.S Drug Substance

2.3.S.1 General Information

Table 2.1 General properties of KN035

Appearance	Clear and colorless to slight red-orange color and slight opalescent
Identity	Consists of two identical units of humanized camelid heavy-chain antibody (dAb), and Fc (IgG1) fusion protein.
Theoretical molecular weight without glycans	79543.8Dalton
Theoretical extinction coefficient	1.370 $mg.mL^{-1}.cm^{-1}$
Theoretical pI	8.56
Glycosylation	N-glycosylation at position 210 of Fc region(N297 in Kabat numbering) with G2F and G1F as dominant glycans.
Charge profile[1]	Contains acidic peaks 1 and 2, K0，K1 and K2 peaks, and other basic peaks
Binding property	Binds to the extracellular domain of PDL1 with average affinity of 2.86E-09 (M) by Octet K2 system
Blocking activity	Blocking the binding of PD1 to PDLI with an average IC_{50} of 468 ng/mL.

1. K0: no C-terminal lysine; K1: one C-terminal lysine; and K2: two C-terminal lysine.