Module 3.2.A

3.2.A.4.5 CoA of DS lot 150107DS



Certificate of Analysis Test Report

Test Report No.CoA-PRT-KN035-0018

Report Date:2016	1.		B14-
Category	Isoelectric point (pI)	Nine peaks in total in the pI range of 7.75-9.55; and five main peaks are in the pI range of 8.50-9.25. Conform to the reference standard.	Results Nine peaks in total in the pI range of 7.98-9.44; and five main peaks are in the pI range of 8.65-9.20. Conform to the reference standard.
	Peptide mapping	Conform to the reference standard. RSD of retention time of the characteristic peaks should not be higher than 3.00%	Conform to the reference standard RSD of retention time of the characteristic peaks should not be higher than 0.28%
	Western blot	React to Fc specific antibodies	React to Fc specific antibodies
	Relative binding activity	Conform to reference standard	Conform to reference standard
Appearance	Visual inspection	Clear and colorless to orange red liquid, with the faint opalescence.	Clear and colorless, with the fair opalescence
Purity	SE-HPLC	Monomer ≥ 95.0%	99.6%
		Aggregate < 3.0%	0.1%
		Fragment: report results	0.3%
	WCX-HPLC	Sum of acid peak 1 < 20.0 %	3.2%
		Sum of acidic peak 2: report results	57.3%
		Sum of K0, K1and K2: report results	35.6%
		Sum of other basic peaks: report results	4,0%
	CE-SDS (reducing conditions)	Main peak purity ≥95.0%;	98.4%
		Fragment: report results	1.6%
Impurities	Host cell protein (HCP)	<100ppm	14 ppm
	Host cell DNA	<0.33pg/mg	<0.13 pg/mg
Safety	Bacterial endotoxin	<0.2EU/mg	<0.016EU/mg
	Bioburden	<10cfu/ml	<1 cfu/ml
Potency	Relative blocking activity	70-130% of the reference standard	94%
	Relative binding activity	70-130% of the reference standard	105%
Content	Protein content	13.5~ 16.5mg/ml	14.9mg/ml

 $QA\ /Date (only\ for\ released\ material/product\ by\ QA)$

2016.06.22

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