RECOMBINANT PENTAMERIC C-REACTIVE PROTEIN

Innovation from Molecular Design to Immunoassay Application

✓ Flexible Reagents Compatibility

Validated on an in-house rabbit pAb combination mouse mAb on separate latex bead reagents.

Validated on an in-house two different mouse mAbs on separate latex bead reagents.

✓ Superior Purity & Stability

Stability (>95% Activity after 15 Days at 37°C)

>98% Purity (HPLC Verified) vs. 93.44% Blood-Derived.

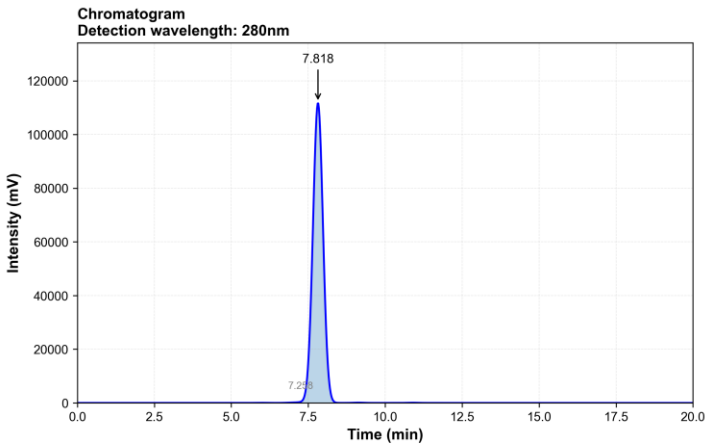
✓ Cost-Effective & Stable supply

Recombinant production offers competitive pricing, ensuring batch-to-batch consistency.

Production capacity up to 1000 grams/year.

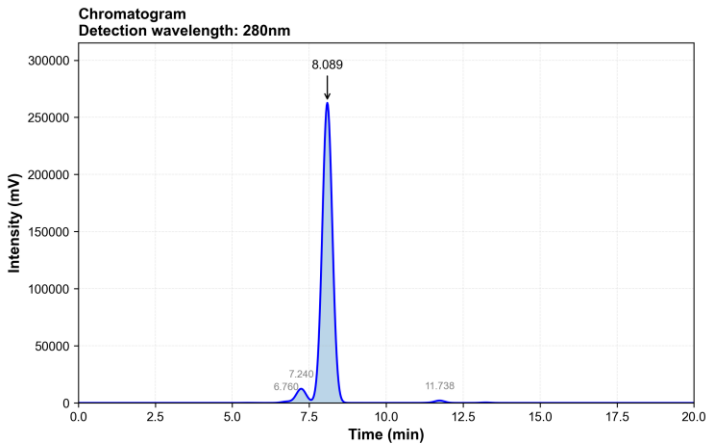
1. Purity Comparison: Recombinant vs. Blood-Derived CRP (HPLC)

✓ Purity: AmbiGen's recombinant CRP demonstrates 99.28% (Lot: 2105) purity by HPLC analysis, significantly exceeding blood-derived CRP (93.44%). The single dominant peak confirms minimal impurities, ensuring superior calibrator accuracy and consistency.



Peak No.	Retention Time (min)	Area	Area%	Height
1	5.942	1767	0.116	54
2	6.942	1496	0.099	99
3	7.258	3667	0.242	223
4	7.818	1506066	99.280	111787
5	9.135	1021	0.067	113
6	10.903	2969	0.196	87
Total		1516986	100.000	112363

Recombinant CRP HPLC analysis result



Peak No.	Retention Time (min)	Area	Area%	Height	Height%
1	5.452	1277	0.029	98	0.035
2	6.760	21632	0.488	1127	0.404
3	7.240	230766	5.210	12382	4.440
4	8.089	4138419	93.437	262713	94.204
5	11.397	1470	0.033	136	0.049
6	11.738	28859	0.652	2037	0.730
7	13.234	6694	0.151	383	0.137
Total		4429117	100.000	278876	100.000

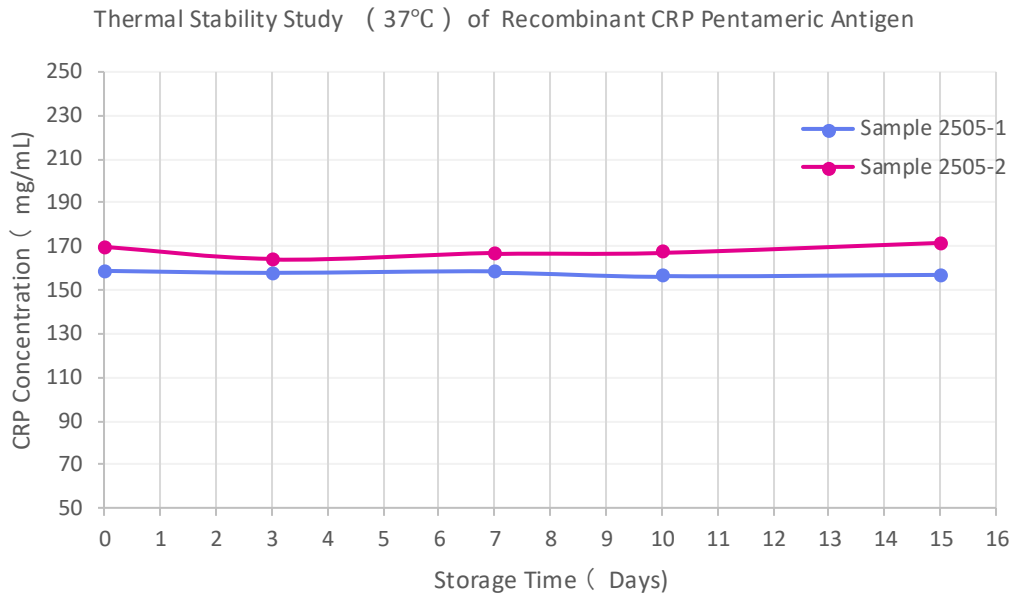
Blood-derived CRP HPLC analysis result

AMBIGEN BIOTECH CO., LTD.
- NO.288 QINHUAI ROAD LISHUI DISTRICT NANJING– 211200, China
- Tel: 400-025-0860 - E-mail: info@ambigenbio.com - Web: www.ambigenbio.com

AmbiGen

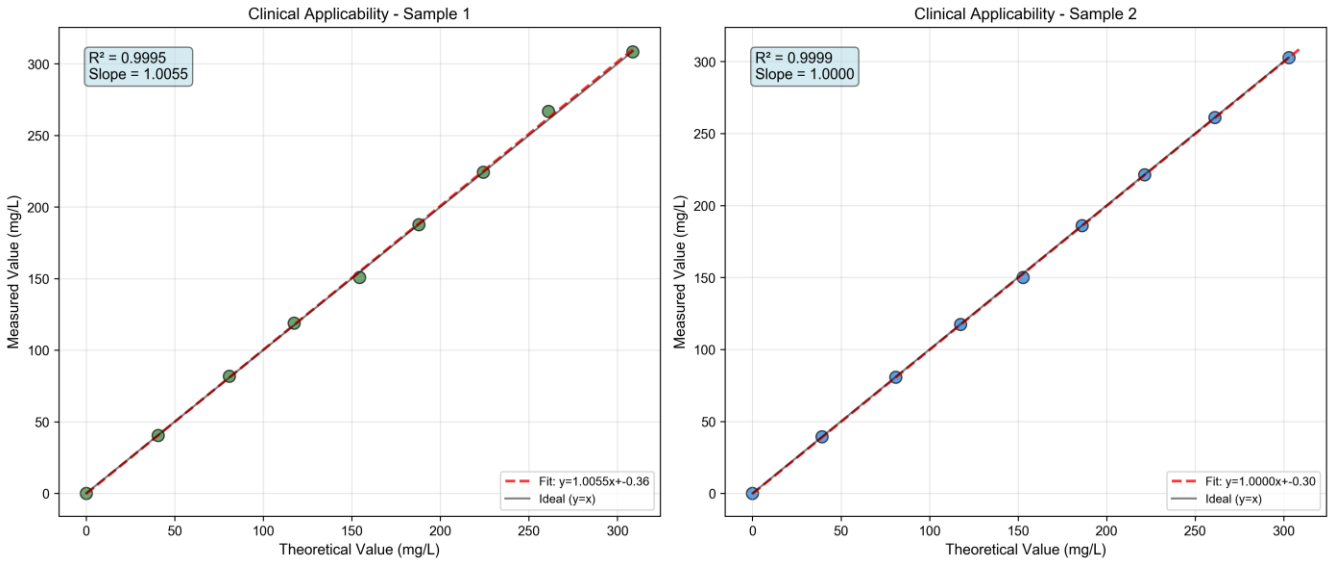
2. Thermal Stability Study

Both test samples (Lot 2505-1 and Lot 2505-2) maintained >95% activity after 15 days at 37°C. This exceptional stability ensures consistent calibrator performance, extended shelf life, and reduced operational costs through less frequent requalification.



3. Validated Compatibility and lot-to-lot Consistency Performance

Both test samples (Lot 2505-1 and Lot 2505-2) show exceptional linear correlation (R^2=0.9995-0.9999, slope=1.0000-1.0055) across the entire measurement range (0-300 mg/L). This validation demonstrates that recombinant CRP delivers accuracy and precision matching the best blood-derived calibrators—without blood-source limitations.



AMBIGEN BIOTECH CO., LTD.
- NO.288 QINHUAI ROAD LISHUI DISTRICT NANJING– 211200, China
- Tel: 400-025-0860 - E-mail: info@ambigenbio.com - Web: www.ambigenbio.com