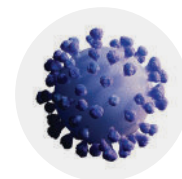


Human Beta-2-Microglobulin (Recombinant)



BBI's recombinant human beta-2 microglobulin (B2M) is expressed in *Pichia pastoris*, providing a highly pure, donor-independent antigen that closely matches native B2M performance in immunoassays. Designed for IVD manufacturers requiring a reliable, scalable B2M source for assay development, calibration, and routine commercial production in nephrology and oncology testing.

Product Specification

Product Code	P701-1
Name/s	B2M, β 2M
UniProt Accession	P61769
Source	Recombinant from <i>Pichia pastoris</i>
Purity	> 98% pure (by SDS PAGE analysis) Purification method: Chromatography
Form	Lyophilised
Presentation	50 mM ammonium bicarbonate (may contain buffer salts)
Reconstitution	Use of phosphate buffer, pH >7.0, containing 0.15M NaCl is recommended
Storage	2-8°C
Shelf Life	5 years from the date of manufacture
Pack Sizes	0.1 mg, 1 mg, 10 mg, 100 mg
Site of Manufacture	Crumlin, UK



Applications

Suitable to use as a calibrator or control in a variety of immunoassay applications in different matrices

Why choose BBI's Recombinant B2M



High purity, assay-ready antigen
>98% purity minimising interference from contaminants and supporting robust assay performance in multiple immunoassay platforms.



Proven native-comparable performance
Demonstrated comparable recovery and linearity to native B2M across platforms, enabling a smooth transition from native to recombinant without compromising results.



Secure, scalable supply
Recombinant production with large batch sizes from mg to gram quantities provides a sustainable, donor-independent supply for development and long-term commercial manufacture.



Regulated, quality-focused manufacturing
Produced in the UK under an ISO 13485-certified Quality Management System, supporting regulatory compliance and consistent lot-to-lot performance for IVD manufacturers.



Order your evaluation sample today

Technical Data

Product Purity Assessment

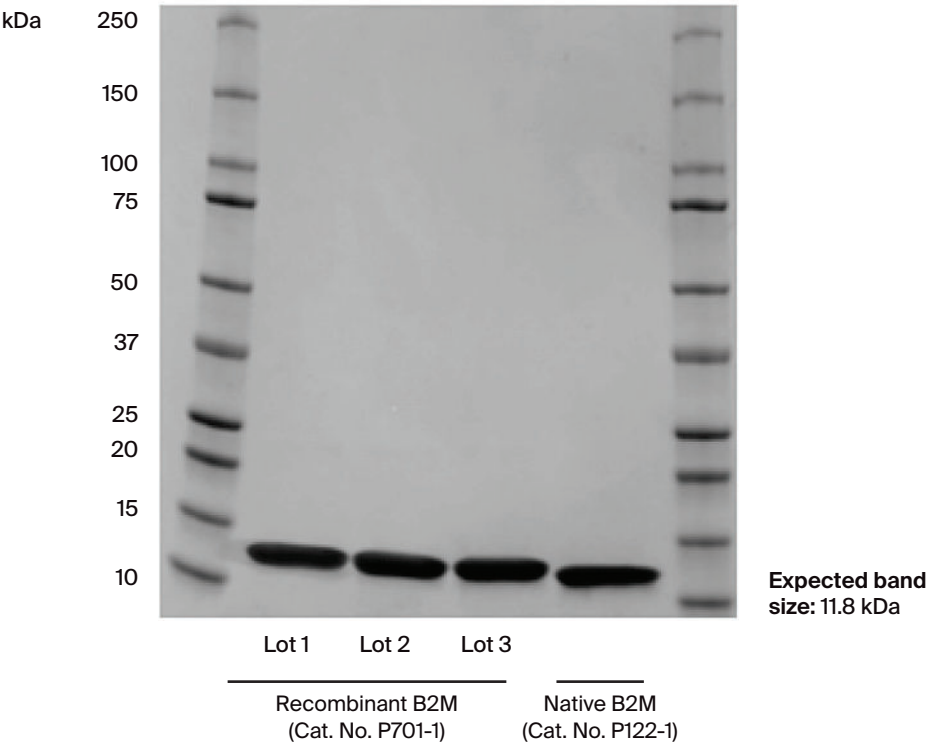


Figure 1:
Comparison of three independent lots of recombinant human B2M (Cat. No. P701-1) and native human B2M (Cat. No. P122-1). Rec. or native human B2M were loaded on SDS-PAGE each at a concentration of c= 0.25 mg/ml und run under denaturing/non-reducing conditions. Proteins were visualized using Coomassie staining.



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Immunoassay Recovery and Linearity Testing

Product	Code	Lot	Dilution Factor (Stock c= 1 mg/ml)	Mean Prospec Result (mg/L)	Result (mg/ml)	Recovery as % of stock conc.
Recombinant B2M	P701-1	1	500	2,03	1,02	102%
			750	1,34	1,01	101%
			1000	1,02	1,02	102%
		2	500	2	1,00	100%
			750	1,29	0,97	97%
			1000	1,1	1,10	110%
		3	500	1,84	0,92	92%
			750	1,32	0,99	99%
			1000	1,04	1,04	104%
Native B2M	P122-1	1	500	1,875	0,94	94%
			750	1,31	0,98	98%
			1000	0,95	0,95	95%

Table 1

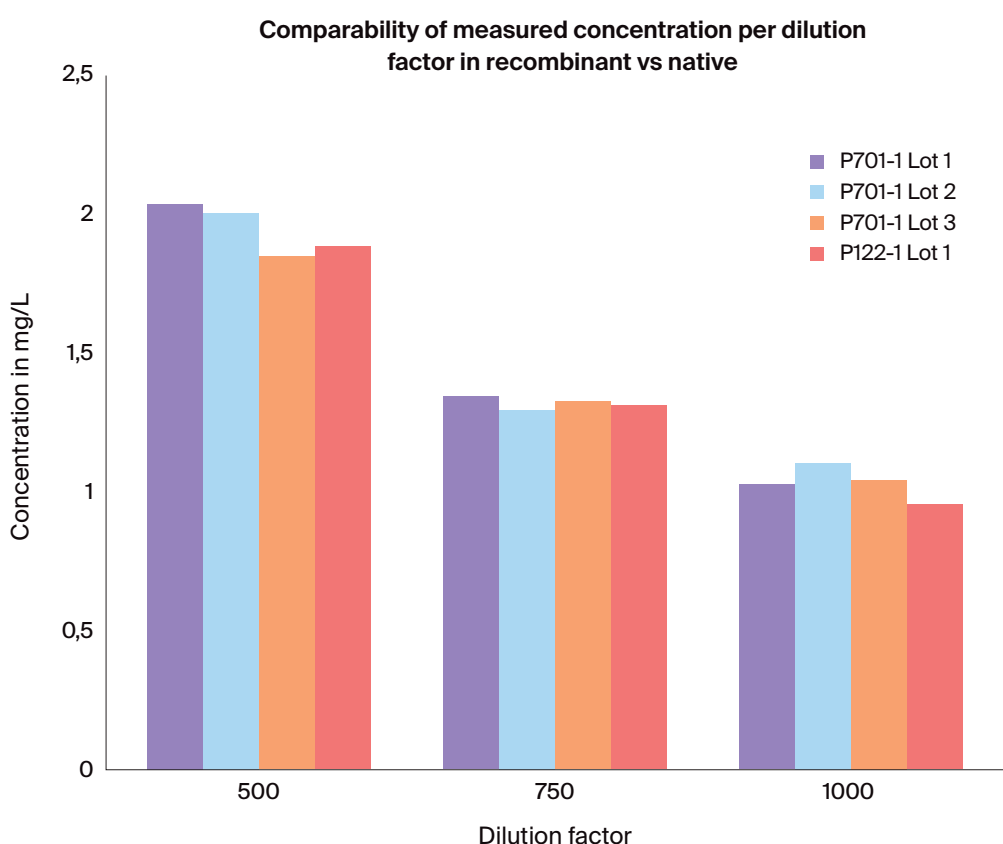


Figure 2:

Comparison of recovery of four independent lots of recombinant human B2M (Cat. No. P701-1) and native human B2M (Cat. No. P122-1). All samples were reconstituted at a concentration of 1mg/ml and further diluted in normal human serum as indicated in Table 1. All samples were subsequently run in duplicates on a Siemens Prospec® instrument (Measuring principle: Nephelometry). Mean results of duplicates are given in Table 1.



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Immunoassay Percentage Recovery EQA Data

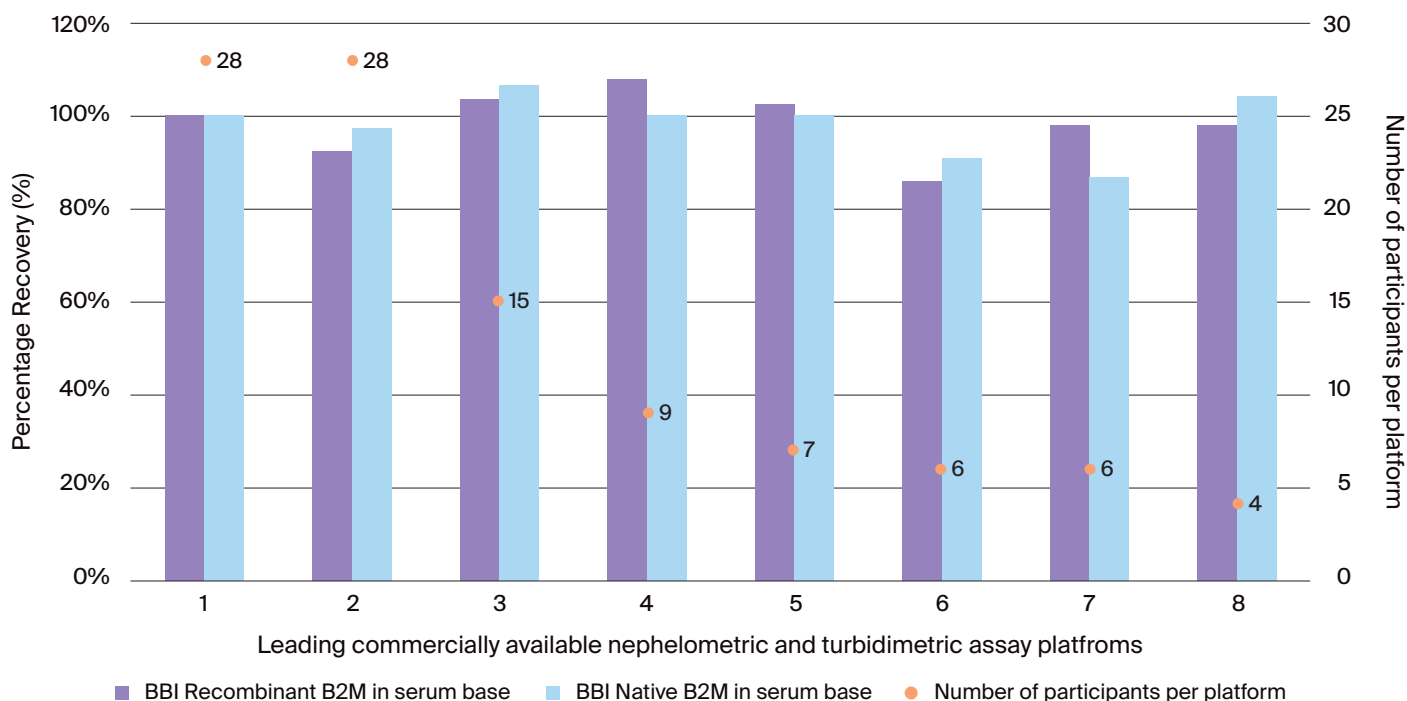


Figure 3:

Percentage recovery EQA for recombinant human Beta-2 microglobulin (P701-1) versus native human Beta-2 microglobulin (B2M; Cat. No. P122-1) on leading commercially available nephelometric and turbidimetric assay platforms as indicated. Either recombinant or native B2M were spiked into a serum matrix at a concentration of 10mg/L. The percentage of recovery was calculated using the respective kit standard as the reference.

Ordering Details - Use the following codes when ordering

Product	Code	Description
Beta-2-Microglobulin (Recombinant)	P701-1	> 98% pure supplied lyophilised from 0.02M NH ₄ HCO ₃ expressed from (<i>Pichia pastoris</i>)



Order a sample today

email: sales@bbisolutions.com

Int: +44 (0) 1495 363 000 USA: +1 888 222 4149 China: +86 400 969 8006