

# r $\beta_2$ M

Recombinant human  $\beta_2$ -microglobulin

Host cell : *E. coli*

$\beta_2$ M is a 12 kDa monomeric serum protein.

$\beta_2$ M is the small subunit of human leukocyte antigen (HLA) class-I histocompatibility antigens.

$\beta_2$ M is known as one of the biomarker of kidney function. Recently, it is noticed for biomarker in peripheral arterial disease.

(*Circulation*. 2007, 116, 1396-1403 )

This product is a recombinant protein expressed in *E. coli* and purified.

The product indicates the same molecular weight and isoelectric point as human  $\beta_2$ M. N-terminal 5 amino acid sequence of the product is identical with human  $\beta_2$ M.

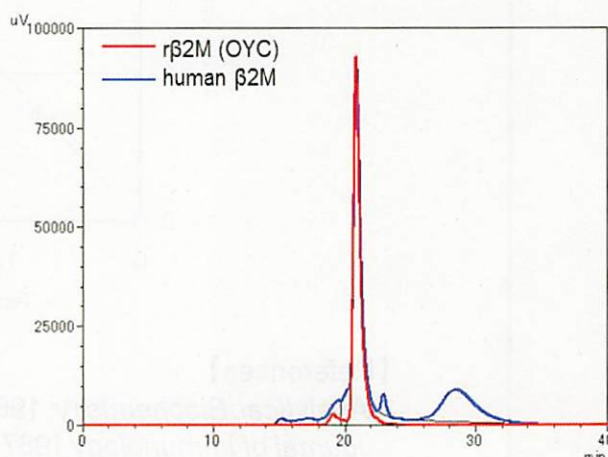
## HPLC analysis

Column : TSKgel G2000SWXL ( 7.8mm I.D. × 30 cm )

Eluent : 0.15 M NaCl, 0.05 M K-phosphate (pH 7.5)

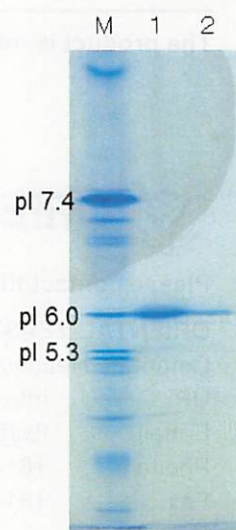
Flow rate : 0.5 ml/min

Detector : UV (280nm)



## Isoelectric focusing

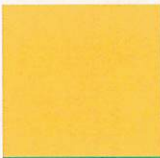
Lane M : Isoelectric focusing marker  
1 : r $\beta_2$ M (OYC)  
2 : human  $\beta_2$ M



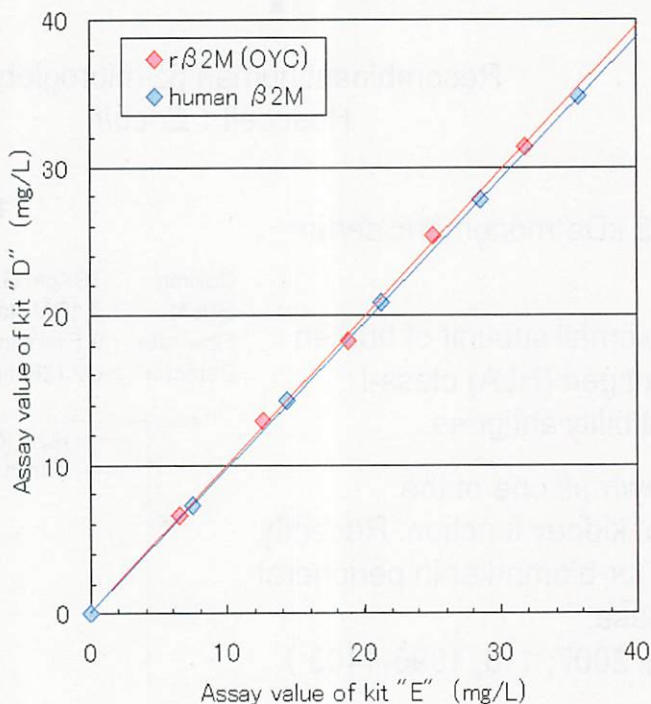
## Specification

Source : Human  
Molecular weight : 12 kDa  
Appearance : Lyophilized powder  
Storage : below  $-20^{\circ}\text{C}$





### Correlation between two commercial assay kits



#### 【References】

- Analytical Biochemistry* 1968, 22, 195-210
- Journal of Immunology* 1987, 139, 3132-3138
- Nephron* 1981, 28, 196-199
- Circulation*. 2007, 116, 1396-1403

Product name	OYC No.	Package	Price
rβ2M	47183900	Bulk	Please inquiry

The product is intended for in vitro diagnostic or research use only.



## ORIENTAL YEAST CO.,LTD.

Please contact the one that best suits your need.

#### ORIENTAL YEAST CO., LTD.

Corporate Headquarters (Tokyo, Japan)

URL : <http://www.oyc-bio.jp/>

E-mail : [fbi@oyc.co.jp](mailto:fbi@oyc.co.jp)

Phone : +81-3-3968-1192

Fax : +81-3-3968-4863

#### OYC EU B.V.

(Rotterdam, The Netherlands)

URL : <http://www.oyceu.com/>

E-mail : [info@oyceu.com](mailto:info@oyceu.com)

Phone : +31-10-4145777

Fax : +31-10-2134919

#### OYC Americas, Inc.

(Vista, USA)

URL : <http://www.oycus.com/>

E-mail : [service@oycus.com](mailto:service@oycus.com)

Phone : +1-760-659-5943

Fax : +1-760-201-8950

#### ORIENTAL YEAST INDIA Pvt. Ltd.

(Mumbai, INDIA)

URL : <http://oycindia.com/>

E-mail : [rpai@oyc-obd.com](mailto:rpai@oyc-obd.com)

Phone : +91-22-27717107

Fax : +91-22-27717107