

## **Product Information**

**Isotype:** hlgG1/kappa

**Expression System:** CHO cells

Concentration: 10.0 mg/ml as determined by UV280

assay

**Purification:** Antibody was obtained from supernatant,

Purification includes Protein A capture, low

pH viral inactivation, anion exchange,

ultradiafiltration, and nanofiltration

**Purity:** About 95% as estimated by densitometric

analysis of the Coomassie Blue-stained

SDS-PAGE gel

**Contents** of monomers, 99.86% monomers, fragments not

fragments, dimers and polymers (SEC- detected

HPLC): 0.14% dimers

Endotoxin (LAL assay): < 0.3 EU/ml

Storage and Handling: Storage temperature at 2-8°C

Storage Buffer: 2 mM acetate, 10% maltose, 0.01%

Tween10, pH6.6



## **Experimental Results**

The recombinant plasmids encoding heavy chain and light chain of e137 was transiently transfected into suspension CHO cell cultures. The target antibody was produced under GMP using Protein A chromatography, followed by low pH incubation for viral inactivation, anion exchange chromatography for impurity removal, and ultradiafiltration for buffer exchange. The final product was filtered through nanofiltration for viral clearance. Purity was assessed by SDS-PAGE.

BIN: IT10371170019

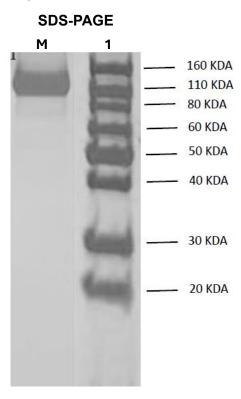


Figure 1. SDS-PAGE OF e137

Lane M: Protein Marker

Lane 1: Non-reducing conditions



## **Biological Activity**

e137 Neutralizing activity HCVpp 1a (H77):  $IC_{50} = 0.03 \mu g/mL$ 

e137 Neutralizing activity HCVpp 1b (5.23):  $IC_{50} = 0.9 \mu g/mL$ 

e137 Neutralizing activity HCVpp 2a (1.2):  $IC_{50} = 1.6 \mu g/mL$ 

e137 Neutralizing activity HCVcc 2a (JFH1):  $IC_{50} = <0.3 \mu g/mL$ 

e137 Neutralizing activity HCVpp 2b (1.7):  $IC_{50} = 0.9 \mu g/mL$ 

e137 Neutralizing activity HCVpp 3a (4.28):  $IC_{50} = 1 \mu g/mL$ 

e137 Neutralizing activity HCVpp 4 (21.6):  $IC_{50} = 1.4 \mu g/mL$ 

e137 Neutralizing activity HCVpp 5 (16.11):  $IC_{50} = 1 \mu g/mL$ 

## **Publications**

**PMID: 23109015:** Neutralization activity and kinetics of two broad-range human monoclonal IgG1 derived from recombinant Fab fragments and directed against Hepatitis C virus E2 glycoprotein

**DOI:** 10.1016/j.antiviral.2012.07.013: Anti-hepatitis C virus E2 (HCV/E2) glycoprotein monoclonal antibodies and neutralization interference

**DOI:** 10.1028/JVI.01986-07: Identification of a broadly cross-reacting and neutralizing human monoclonal antibody directed against the hepatitis C virus E2 protein

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