

**PRODUCT INFORMATION**

<b>Target</b>	MC4R
<b>Synonyms</b>	BMIQ20
<b>Description</b>	Recombinant human MC4R Protein with C-terminal human Fc tag
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	P32245
<b>Expression Host</b>	HEK293
<b>Tag</b>	C-Human Fc tag
<b>Molecular Characterization</b>	MC4R(Met1-Gln43) hFc(Glu99-Ala330)
<b>Molecular Weight</b>	The protein has a predicted molecular mass of 31.0 kDa after removal of the signal peptide. The apparent molecular mass of MC4R-hFc is approximately 35-55 kDa due to glycosylation.
<b>Purity</b>	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
<b>Formulation &amp; Reconstitution</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5% - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions.
<b>Storage&amp;Shipping</b>	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
<b>Background</b>	The protein encoded by this gene is a membrane-bound receptor and member of the melanocortin receptor family. The encoded protein interacts with adrenocorticotrophic and MSH hormones and is mediated by G proteins. This is an intronless gene. Defects in this gene are a cause of autosomal dominant obesity. [provided by RefSeq, Jan 2010]
<b>Usage</b>	Research use only
<b>Conjugate</b>	Unconjugated



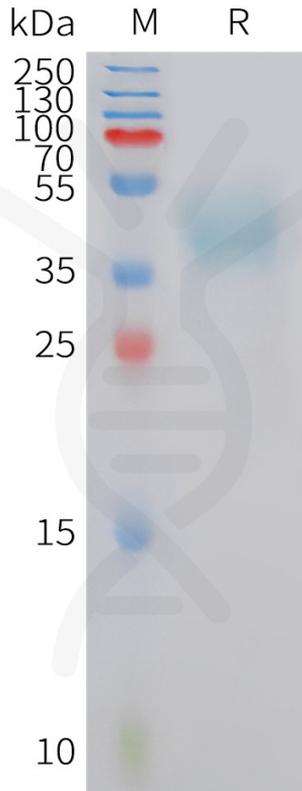


Figure 1. Human MC4R Protein, hFc Tag on SDS-PAGE under reducing condition.

### Human MC4R, hFc Tagged Protein ELISA

0.2  $\mu$ g of Human MC4R, hFc tagged protein per well

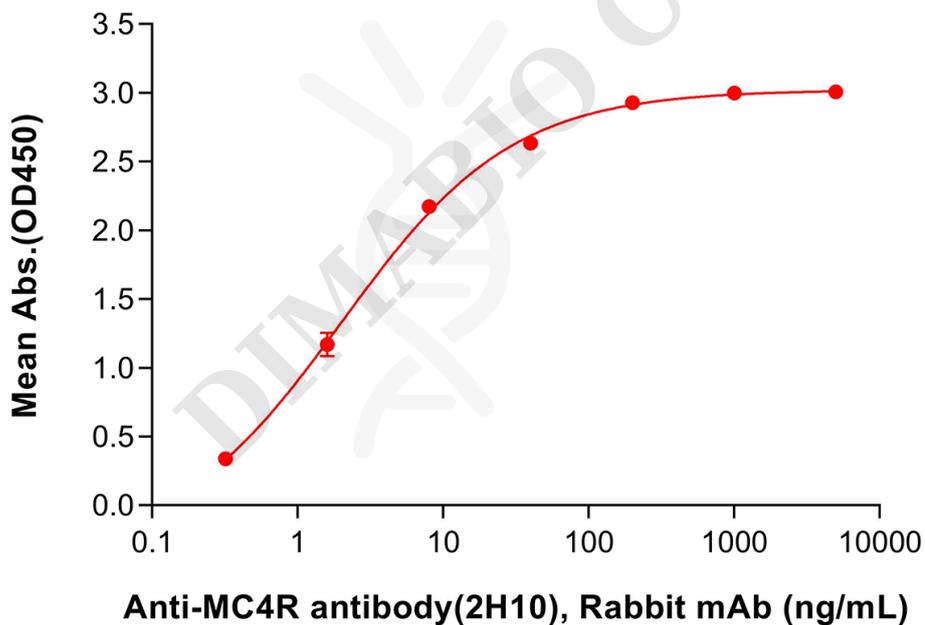


Figure 2. ELISA plate pre-coated by 2  $\mu$ g/mL (100  $\mu$ L/well) Human MC4R Protein, hFc Tag (PME101425) can bind Anti-MC4R antibody(2H10), Rabbit mAb (DME101294) in a linear range of 1.6–8.0 ng/mL. In order to specifically detect DME101294, HRP Conjugated- Goat anti Rabbit (H+L) was used as detection antibody.

