Data Sheet (Cat.No.TMPY-03716)

TargetMol

REG2 Protein, Mouse, Recombinant (hFc)

General Information

Synonyms:	RegII;REG2;regenerating islet-derived 2
Protein Construction:	A DNA sequence encoding the mouse REG2 (NP_033069.1) (Met1-Ala173) was expressed with the Fc region of human IgG1 at the C-terminus. Predicted N terminal: Gln 23
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	Q08731
Molecular Weight:	43.6 kDa (predicted); 45.4 kDa (reducing conditions)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Regenerating islet-derived proteins (Regs) comprise the superfamily of C-type lectin proteins encoded by Reg1, Reg2, Reg3a, Reg3b, Reg3g, Reg3d, and Reg4. The Reg family proteins are expressed in various tissues and have pleiotropic functions. Reg3b and Reg3g encode murine Reg3β and Reg3γ, respectively, and are murine homolog of human REG3A. Both proteins are highly expressed in the small intestine of adult mice at both mRNA and protein levels, but their expression is very low in the colon. Intriguingly, expression of Reg3β and Reg3γ is not detectable

in the embryonic mouse intestine but gradually increases along with colonization of the commensal bacteria after birth.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481