Data Sheet (Cat.No.TMPJ-01160)

TargetMol

SIRP beta 2 Protein, Human, Recombinant (hFc)

General Information

Synonyms:	Signal-Regulatory Protein β-2;PTPN1L;SIRP-beta-2;Signal-Regulatory Protein Beta 2;Signal-Regulatory Protein Beta-2;SIRP β2;PTPNS1L3;SIRP-β-2;SIRPG;dJ776F14.2;Signal-Regulatory Protein β2;SIRP beta 2
Protein Construction:	Gln33-Gly287
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q5JXA9
Molecular Weight:	80-95 KDa (reducing condition)
AA Sequence:	Gln33-Gly287

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

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

Signal-regulatory protein beta-2(SIRP-beta-2), is a monomeric single pass type I membrane glycoprotein, belongs to the SIRP/SHPS (CD172) family of the immunoglobulin (Ig) superfamily. The SIRP family are paired receptors that have similar extracellular domains but differing C-terminal domains and functions. A positively charged residue within the transmembrane domain, in analogy to SIRP-beta-1, is implicated to mediate interaction with the

adaptor DAP12 protein, which contains immunoreceptor tyrosine-based activation motifs (ITAMs) . Proteins in the SIRP family are typically expressed in immune cells, especially in the myeloid lineages . Based on expression patterns, SIRPs are thought to have roles in immune regulation. SIRP family members role in innate immunity and host defense has potential significance as a therapeutic target in cancer and inflammation. There are currently no known mouse or rat homologs for this protein.

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