

ECSCR Protein, Mouse, Recombinant (hFc)

General Information

Synonyms:	ECSCR;ARIA;ECSM2
Protein Construction:	Gln19-Thr130
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	Q3TZW0-1
Molecular Weight:	38.6 kDa (predicted). Due to glycosylation, the protein migrates to 48-68 kDa based on Tris-Bis PAGE result.

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:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
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 20 mM Tris, 150 mM NaCl (pH 8.2). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

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:

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

Endothelial cell-specific chemotaxis receptor (ECSCR) is a cell surface protein expressed by blood endothelial cells with roles in endothelial cell migration and signal transduction. Zebrafish *ecscr* is expressed in angioblasts and in axial vessels during angioblast migration and vasculogenesis. Morpholino-directed *ecscr* knockdown resulted in defective angioblast migration in the posterior lateral plate mesoderm, a process known to depend on vascular

endothelial-derived growth factor (VEGF).

Reference

Verma A, et al. Endothelial cell-specific chemotaxis receptor (ecscr) promotes angioblast migration during vasculogenesis and enhances VEGF receptor sensitivity. Blood. 2010 Jun 3;115(22):4614-22. doi: 10.1182/blood-2009-10-248856. Epub 2010 Jan 19. PMID: 20086248; PMCID: PMC2881497.

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