



Recombinant Protein Technical Manual

Recombinant Human Ephrin-A5/EFNA5 Protein (Fc Tag)

RPES3064

Product Data:

Product SKU: RPES3064

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P52803

Protein Information:

Molecular Mass: 48.3 kDa

AP Molecular Mass: 55-60 kDa

Tag: C-Fc

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Ephrin-A5;EPLG7; LERK7;EFNA5;LERK-7;EPH-related receptor tyrosine kinase ligand 7;AL

Immunogen Information:

Sequence: Gln21-Asn203

Background:

Ephrin-A5 (EFNA5) belongs to the ephrin family, contains 1 ephrin RBD (ephrin receptor-binding) domain. Ephrin-A5 is a cell surface GPI-bound ligand for Eph receptors, a family of receptor tyrosine kinases which are crucial for migration, repulsion and adhesion during neuronal, vascular and epithelial development. It binds promiscuously Eph receptors residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The interaction of EFNA5 with EPHA5 also mediates communication between pancreatic islet cells to regulate glucose-stimulated insulin secretion. Cognate/functional ligand for EPHA7, their interaction regulates brain development modulating cell-cell adhesion and repulsion.