Recombinant Human ILT4/LILRB2 protein (His Tag)

Catalog Number: PDMH100418

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

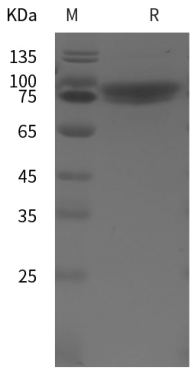
Description

Species	Human
Source	HEK293 Cells-derived Human ILT4 protein Met1-Val461, with an C-terminal His
Calculated MW	50.6 kDa
Observed MW	75 kDa
Accession	Q8N423
Bio-activity	Not validated for activity

Properties

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU/mg of the protein as determined by the LAL method
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ 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 in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Members of the immunoglobulin-like transcript (ILT) family are activating and inhibitory immunoreceptors whose genes are located same locus that encodes killer cell Ig-like receptors (KIR). Leukocyte Immunoglobulin-Like Receptor Subfamily B Member 2 (LIR-2) is a type I transmembrane protein. LIR-2 is expressed primarily on monocytes and dendritic cells (DC). Human LIR-2 is produced as a 598 amino acino acid precursor including a 21 aa signal sequence, a 440 aa extracellular domain (ECD), a 21 aa transmenbrane segment, and a 116 aa cytoplasmic domain. LIR-2 binds to Classical MHCI proteins. Ligation of LIR-2 incluces Tyr phosphorylation within its cytoplasmic ITIMs, a requirement for association with SHP-1. LIR-2 mediates tolerogenic DC-induced CD4+ T cell energy in vitro and in vivo.