Data Sheet (Cat.No.TMPY-05353)

TargetMol

CCL26 Protein, Human, Recombinant

General Information

Synonyms:	MIP-4alpha;SCYA26;MIP-4a;chemokine (C-C motif) ligand 26;IMAC;MIP-4α;TSC-1
Protein Construction:	A DNA sequence encoding the human CCL26 (NP_006063.1) (Met1-Leu94) was expressed. Predicted N terminal: Thr 24
Species:	Human
Expression Host:	Baculovirus Insect Cells
Accession:	Q9Y258
Molecular Weight:	8.4 kDa (predicted)

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 20 mM Tris, 300 mM NaCl, pH 8.0, 10% glycerol. 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

The eotaxin subfamily of CC chemokines consists of eotaxin-1/CCL11, eotaxin-2/CCL24 and eotaxin-3/CCL26. All eotaxins induce the trafficking of eosinophils to the sites of inflammation via CC chemokine receptor 3 (CCR3), which is also expressed by several different cell types, including basophils, dendritic cells, smooth muscle cells, epithelial cells and fibroblasts. The sequence similarity between the three eotaxins is limited (<4%), but their functional properties are very similar. Eotaxin-1 and -2 are expressed by both haematopoietic and non-

haematopoietic cells, but eotaxin-3 expression has been reported to be limited to non-haematopoietic cells. Interleukin (IL)-4 is the main inducer for eotaxin-3 expression, whereas eotaxin-1 is up-regulated by IL-4 and the proinflammatory cytokine tumour necrosis factor (TNF)-α. Eotaxin-3 is expressed in vascular endothelial cells and human dermal fibroblasts after IL-4 and IL-13 stimulation, and this is dependent upon the IL-4-/IL-13-specific transcription factor, signal transducers and activator of transcription (STAT)-6. Eotaxin-3 is expressed on the surface of IL-4-stimulated endothelial cells and promotes eosinophil transmigration.Cancer ImmunotherapyImmune CheckpointImmunotherapyTargeted Therapy

Reference

Takahashi K, Imaeda H, Fujimoto T,et al.Regulation of eotaxin-3/CC chemokine ligand 26 expression by T helper type 2 cytokines in human colonic myofibroblasts. Clinical and Experimental Immunology. 2013;173(2):323-331.