Recombinant Caprine IL-9 (N-His)

Information

Gene ID	102179848
Accession #	A0A8C2P3I2
Alternate Names	Caprine/Goat IL-9, IL9, Interleukin-9, P40
Source	E.coli
Protein sequence	SQGCFTYVGV KNIVYLIDNL QKDTSSNCSC STDAADCLCL PISSGNCSTA CFQEGLSQLS NSTVSTRFPL ILNQVKRIVV ALKSNKCGSF ACEQPCNQTT TGNTLTFLKT LLESFQNENM RGKV
Tag	N-His
M.Wt	Approximately 18.3 kDa
Appearance	Solution protein.
Stability & Storage	Avoid repeated freeze-thaw cycles. It is recommended that the protein be aliquoted for optimal storage. -3 years from date of receipt, -20 to -70°C as supplied.
Concentration	0.8mg/mL
Formulation	Supplied as a 0.2 μm filtered solution in PBS, pH7.4.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. This solution can be diluted into other aqueous buffers.
Biological Activity	Significantly upregulates the transcript levels of IL-2, IL-4, IL-17, IFN-γ, TGF-β, and TNF-α in PBMCs.
Shipping Condition	Shipping with dry ice.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Quality Control

Purity	> 90 % by SDS-PAGE.
Endotoxin	Less than 1.0 EU/mg as determined by LAL method.

Description

Goat interleukin-9 (Capra hircus Interleukin-9, Goat IL-9) is a secreted pleiotropic cytokine belonging to the IL-7/IL-9 family, functioning as both an immunomodulatory cytokine and a growth factor. It is produced mainly by activated CD4+ T cells (especially Th9 cells), Th2 cells, group 2 innate lymphoid cells (ILC2), mast cells, and eosinophils, and is secreted into the extracellular space via a signal peptide (subcellular localization: Secreted). It acts through a receptor complex composed of IL-9Rα and the γc chain, activating the JAK1/JAK3-STAT signaling pathway. Functionally, goat IL-9 promotes T cell proliferation, enhances IgE production by B cells, promotes mast cell growth and differentiation, induces mucin production and chemokine release in airway epithelial cells, and plays a key role in allergic diseases and anti-parasitic immunity.

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