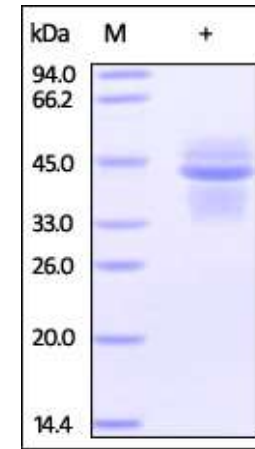


## Human CellExp™ IL-12B & IL-12A Heterodimer, Human Recombinant

<b>CATALOG NO:</b>	P1178-20	20 µg
<b>ALTERNATE NAMES:</b>	IL12, p70, Interleukin-12	
<b>SOURCE:</b>	HEK 293 cells Ile 23 - Ser 328 (IL-12B) and Arg 23 - Ser 219 IL-12A)	
<b>PURITY:</b>	> 95% by SDS – PAGE	
<b>MOL. WEIGHT:</b>	<p>The protein contains two subunits. Subunit IL-12B is fused with his tag at the C-terminus and subunit IL-12A is fused with flag tag at the C-terminus.</p> <p>The protein has a calculated MW of 36.6 kDa (IL12B) and 23.8 kDa (IL12A). The protein migrates as 33-47 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.</p> <p>&lt; 1.0 EU per 1µg of protein (determined by LAL method)</p>	
<b>ENDOTOXIN LEVEL:</b>	Lyophilized	
<b>FORM:</b>	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Generally Mannitol or Trehalose is added as a protectant before lyophilization.	
<b>FORMULATION:</b>		
<b>STORAGE CONDITIONS:</b>	Store at -20°C. After reconstitution, aliquot and store at -20°C and use within 3 months. Avoid repeated freezing and thawing cycles.	
<b>RECONSTITUTION:</b>	Centrifuge the vial prior to opening. Reconstitute in sterile deionized water to a concentration of 50 µg/ml. Solubilize for 30 to 60 minutes at room temperature with occasional gentle mixing. Carrier protein (0.1% (W/V) HSA or BSA) is recommended for further dilution and long term storage. Do not vortex. This solution can be stored at 2-8°C for up to 1 month.	
<b>DESCRIPTION:</b>	<p>Interleukin 12 (IL12) is also known as p70, and is an interleukin that is naturally produced by dendritic cells, macrophages and human B-lymphoblastoid cells (NC-37) in response to antigenic stimulation. IL12 is a heterodimeric cytokine, containing IL-12A (p35) and IL-12B (p40). IL-12 is involved in the differentiation of naive T cells into Th1 cells. It is known as a T cell-stimulating factor, which can stimulate the growth and function of T cells. It stimulates the production of IFN-γ and TNF-α from T cells and NK cells, and reduces IL-4 mediated suppression of IFN-γ. IL-12 plays an important role in the activities of natural killer cells and T lymphocytes. IL-12 also has anti-angiogenic activity, which means it can block the formation of new blood vessels.</p>	



Human IL-12B & IL-12A, His Tag & Flag Tag on SDS-PAGE under reducing (R) condition

### RELATED PRODUCT:

- Human CellExp™ TNFRSF10B /TRAILR2, human recombinant (Cat. No. 7448-10)
- Human CellExp™ CD155, human recombinant (Cat. No. 7462-10, -50)
- Human CellExp™ CD160/BY55, human recombinant (Cat. No. 7386-10, -50)
- Human CellExp™ CD166/ ALCAM, human recombinant (Cat. No. 7437-10, -50)
- Human CellExp™ CD172A / SIRP, human recombinant (Cat. No. 7506-10, -50)
- Human CellExp™ CD33 / SIGLEC-3, human recombinant (Cat. No. 7370-10, -50)
- Human CellExp™ CD47, human recombinant (Cat. No. 7385-10, -50)
- Human CellExp™ CD55/DAF, human recombinant (Cat. No. 7432-10, -50)
- Human CellExp™ CD58 /LFA-3, human recombinant (Cat. No. 7427-10, -50)
- Human CellExp™ CD62E/E-Selectin, human recombinant (Cat. No. 7434-20, -100)
- Human CellExp™ CD71 / TFRC / TFR, human recombinant (Cat. No. 7279-10, -50)
- Human CellExp™ CD273, human recombinant (Cat. No. 7369-10, -50)
- Human CellExp™ CD36, human recombinant (Cat. No. 7371-10, -50)
- Human CellExp™ CD87, human recombinant (Cat. No. 7372-20, -100)

**FOR RESEARCH USE ONLY! Not to be used on humans.**