

**IL12RB1, 1-545aa, Human, His tag, E.coli**

**Cat.NO.: TP02607**

3th Edition

**Synonyms:** Interleukin-12 receptor subunit beta-1, CD212, IL-12R-BETA1, IL12RB

**Description:** IL12RB1 is a type I transmembrane protein that belongs to the hemopoietin receptor superfamily. This protein binds to interleukine 12 (IL12) with a low affinity, and is thought to be a part of IL12 receptor complex. This protein forms a disulfide-linked oligomer, which is required for its IL12 binding activity. The coexpression of this and IL12RB2 proteins was shown to lead to the formation of high-affinity IL12 binding sites and reconstitution of IL12 dependent signaling. Recombinant human IL12RB1 protein, fused to His-tag at N-terminus, was expressed in E.coli.

**Form:** Liquid. In 20mM TRIS 8.0 buffer containing 10% glycerol

**Molecular Weight:** 62.6kDa (568aa)

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGSMEPLVTWVPLLFLFLLSRQGAACRTSECCFQDPPYPDADSGSASGPRDLR  
CYRISSDRYECSWQYEGPTAGVSHFLRCCLSSGRCCYFAAGSATRLQFSDQAGVSVLYTVTLWVESWARNQTEK  
SPEVTLQLYNSVKYEPPLGDIKVS KLAGQLRMEWETPDNQVGAEVQFRHRTPSSPWKLGDCGPQDDDTESCLCP  
LEMNVAQEFQLRRRQLGSQSSWSKWSSPVCVPPENPPQPQVRFVSVEQLGQDGRRRRLTLKEQPTQLELPEGCQ  
GLAPGTEVTYRLQLHMLSCPCAKATR TLHLGKMPYLSGAAYNVAVISSNQFGPGLNQTWHIPADTHTEPVALNIS  
VGTNGTTMYWPARAQSM TYCIEWQPVGQDGLATCSLTAPQDPDPAGMATYSWSRESGAMGQEKCYITIFASA  
HPEKLT LWSTVLSTYHFGGNASAAAGTPHHVSVKNHSLDSVSDWAPSLSTCPGVLKEYVVRCRDEDSKQVSEHP  
VQPTETQVTL SGLRAGVAYTVQVRADTAWLRGVWSQPQRFSIEVQVSD

**Purity:** > 95% by HPLC

**Concentration:** 0.25 mg/ml (determined by Bradford assay)

**Endotoxin Level:** <1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.