

Product datasheet for PH319294

IL15 (NM_172174) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	IL15 MS Standard C13 and N15-labeled recombinant protein (NP_751914)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC219294
Predicted MW:	14.7 kDa
Protein Sequence:	>RC219294 representing NM_172174 Red =Cloning site Green =Tags(s) MRISKPHLRISISIQCYLCLLLNSHFLTEAGIHVFI LGCF SAGLPKTEANWVNVISDLKKIEDLIQSMHID ATLYTESDVHPSCKVTAMKCFLLLELQVISLESGDASIHDTVENLIILANNSLSSNGNVTESGCKECEEE EKNIKEFLQSFVHIVQMFINTS TR TRPLEQ KL I SEED LA AND I LDYK DDDD KV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_751914</u>
RefSeq Size:	1969
RefSeq ORF:	486
Synonyms:	IL-15; Interleukin 15; MGC9721; OTTHUMP00000164617
Locus ID:	3600
UniProt ID:	<u>P40933</u>



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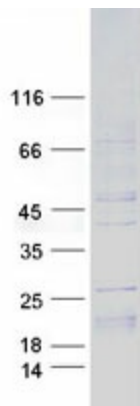
Cytogenetics: 4q31.21

Summary: The protein encoded by this gene is a cytokine that regulates T and natural killer cell activation and proliferation. This cytokine and interleukine 2 share many biological activities. They are found to bind common hematopoietin receptor subunits, and may compete for the same receptor, and thus negatively regulate each other's activity. The number of CD8+ memory cells is shown to be controlled by a balance between this cytokine and IL2. This cytokine induces the activation of JAK kinases, as well as the phosphorylation and activation of transcription activators STAT3, STAT5, and STAT6. Studies of the mouse counterpart suggested that this cytokine may increase the expression of apoptosis inhibitor BCL2L1/BCL-x(L), possibly through the transcription activation activity of STAT6, and thus prevent apoptosis. Alternatively spliced transcript variants of this gene have been reported. [provided by RefSeq, Feb 2011]

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway

Product images:



Coomassie blue staining of purified IL15 protein (Cat# [TP319294]). The protein was produced from HEK293T cells transfected with IL15 cDNA clone (Cat# [RC219294]) using MegaTran 2.0 (Cat# [TT210002]).