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Product datasheet for TP723248

IL9 (NM_000590) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human interleukin 9 (IL9).
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MQGCPTLAGI LDINFLINKM QEDPASKCHC SANVTSCLCL GIPSDNCTRP CFSERLSQMT NTTMQTRYPL IFSRVKKSVE VLKNNKCPYF SCEQPCNQTT AGNALTFLKS LLEIFQKEKM RGMRGKI
Tag:	Tag Free
Predicted MW:	14 kDa
Concentration:	lot specific
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Lyophilized from a 0.2 μM filtered solution of 20mM phosphate buffer,100mM NaCl, pH 7.2
Bioactivity:	ED50 as determined by the dose-dependent proliferation of human M07e cells was < 0.2 ng/ml, corresponding to a specific activity of > 5 x 10^6 units/mg.
Endotoxin:	Endotoxin level is < 0.1 ng/μg of protein (< 1 EU/μg)
Storage:	Store at -80°C.
Stability:	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
RefSeq:	NP_000581
Locus ID:	3578
UniProt ID:	P15248
RefSeq Size:	591
Cytogenetics:	5q31.1
RefSeq ORF:	432
Synonyms:	HP40; IL-9; P40

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Summary: The protein encoded by this gene is a cytokine that acts as a regulator of a variety of hematopoietic cells. This cytokine stimulates cell proliferation and prevents apoptosis. It functions through the interleukin 9 receptor (IL9R), which activates different signal transducer and activator (STAT) proteins and thus connects this cytokine to various biological processes. The gene encoding this cytokine has been identified as a candidate gene for asthma. Genetic studies on a mouse model of asthma demonstrated that this cytokine is a determining factor in the pathogenesis of bronchial hyperresponsiveness. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome, Secreted Protein

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