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IL-10, Human

Catalog # PVGS1033

Product Information

Species	Human
Sequence	SPGQGTQSEN SCTHFPGNLP NMLRDLRDAF SRVKTFFQMK DQLDNLLLKE SLLEDFKGYL GCQALSEMIQ FYLEEVMPQA ENQDPDIKAH VNSLGENLKT LRLRLRRCHR FLPCENKSKA VEQVKNAFNK LQEKGIYKAM SEFDIFINYI EAYMTMKIRN
Purity	> 95 % by SDS-PAGE and HPLC analyses.
Endotoxin Level	Less than 1 EU/ □g of rHuIL-10 as determined by LAL method.
Formulation **Reconstitution**	Lyophilized from a 0.2 □m filtered concentrated solution in PBS, pH 7.4. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

Additional Information

Target Background	Interleukin 10, also known as cytokine synthesis inhibitory factor (CSIF), is the charter member of the IL-10 family of ª-helical cytokines that also includes IL-19, IL-20, IL-22, IL-24, and IL-26/AK155 . IL-10 is secreted by many activated hematopoietic cell types as well as hepatic stellate cells, keratinocytes, and placental cytotrophoblasts . Whereas human IL-10 is active on mouse cells, mouse IL-10 does not act on human cells . IL-10 is a 178 amino acid molecule that contains two intrachain disulfide bridges and is expressed as a 36 kDa noncovalently associated homodimer . The IL-10 dimer binds to two IL-10 Rª/IL-10R1 chains, resulting in recruitment of two IL-10 Rß/IL-10R2 chains and activation of a signaling cascade involving JAK1, TYK2, and STAT3 . IL-10Rß does not bind IL-10 by itself but is required for signal transduction . IL-10 is a critical molecule in the control of viral infections and allergic and autoimmune inflammation . It promotes phagocytic uptake and Th2 responses but suppresses antigen presentation and Th1 proinflammatory responses.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.