Product Datasheet

RecombinantIL-22,Human (orb1494823)

Description	Interleukin-22(IL-22) belongs to a group of cytokines called the IL-10 family or IL-10 superfamily (including IL-19, IL-20, IL-24, and IL-26) which are a class of potent mediators of cellular inflammatory responses. It shares use of IL-10R2 in cell signaling with other members of this family, such as IL-10, IL-26, IL-28A/B and IL-29. IL-22 is produced by activated DC and T cells and initiates innate immune responses against bacterial pathogens in epithelial cells such as those in the lung and gut. IL-22 along with IL-17 is produced by splenic LTi-like cells and Th17 cells and likely plays a role in the coordinated response of both adaptive and innate immune systems.IL-22 signals through a receptor system consisting of IL-10R-ß/CRF2-4 and IL-22R, both of which are members of the class II cytokine-receptor family.Recombinant human Interleukin-22 (IL-22) produced in E.coli is a single non-glycosylated polypeptide chain containing 147 amino acids. A fully biologically active molecule, rhIL-22 has a molecular mass of 16.9 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.
Endotoxins	< 0.2 EU/µg, determined by LAL method.
Preservatives	Lyophilized after extensive dialysis against PBS.
Form/Appearance	Lyophilized after extensive dialysis against PBS.
Storage	Lyophilized recombinant human Interleukin-22 (IL-22) remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, human Interleukin-22 (IL-22) should be stable up to 1 week at 4°C or up to 2 months at -20°C.
Note	For research use only
Application notes	Reconstituted in ddH2O or PBS at 100 µg/ml.
Protein Sequence	MAPISSHCR LDKSNFQQPY ITNRTFMLAK EASLADNNTD VRLIGEKLFH GVSMSERCYL MKQVLNFTLE EVLFPQSDRF QPYMQEVVPF LARLSNRLST CHIEGDDLHI QRNVQKLKDT VKKLGESGEI KAIGELDLLF MSLRNACI
Purity	> 98% as analyzed by SDS-PAGE.

Source   Escherichia coli.

MW   16.9 kDa, observed by reducing SDS-PAGE.

Expiration Date   6 months from date of receipt.