

Recombinant Mouse IL-22

Information

Gene ID	50929
Accession #	Q9JJY9
Alternate Names	IL-TIF, IL-TIF alpha, IL-22a
Source	<i>Escherichia coli</i> .
M.Wt	Approximately 16.6 kDa, a single non-glycosylated polypeptide chain containing 146 amino acids.
AA Sequence	LPVNTRCKLE VSNFQQPYIV NRTFMLAKEA SLADNNTDVR LIGEKLFGRGV SAKDQCYLEMK QVLNFTLEDV LLPQSDRFQP YMQEVVPPFLT KLSNQLSSCH ISGDDQNIQK NVRRLKETVK KLGESGEIKA IGELDLLFMS LRNACV
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. - 12 months from date of receipt, -20 to -70 °C as supplied. - 1 month, 2 to 8 °C under sterile conditions after reconstitution. - 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 1 × PBS, pH 7.4.
Reconstitution	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.
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by inducing IL-10 secretion of human COLO 205 cells is less than 0.2 ng/ml, corresponding to a specific activity of > 5.0 × 10 ⁶ IU/mg.
Shipping Condition	Gel pack.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Components and Storage

Components	10 µg	100 µg	500 µg
Recombinant Mouse IL-22	10 µg	100 µg	500 µg

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 3 months, -20 to -70 °C under sterile conditions after reconstitution.

Quality Control

Purity	> 96 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/μg of rMuIL-22 as determined by LAL method.

Description

IL-22 is belonging to IL-10 family of regulatory cytokines which includes IL-10, IL-19, IL-20, IL-22, IL-24 and IL-26. Members of this family share partial homology in their amino acid sequences, but they are dissimilar in their biological functions. Produced by T lymphocytes and dendritic cells, IL-10 contributes to the inflammatory response in vivo. IL-22 signals through CRF2-4 and IL-22. It along with IL-17 is rapidly produced by splenic LTI-like cells and can be also produced by Th17 cells. IL-22 likely plays a role in the coordinated response of both adaptive and innate immune systems. Recombinant mouse interleukin-22 contains 147 amino acids and it has approximately 81 % and 92 % amino acid sequence identity with human and rat IL-22.

Reference

1. Baier M, Bannert N, Werner A, et al. 1997. Proc Natl Acad Sci U S A, 94: 5273-7.
2. Zhang Y, Center DM, Wu DM, et al. 1998. J Biol Chem, 273: 1144-9.
3. Cruikshank WW, Kornfeld H, Center DM. 2000. J Leukoc Biol, 67: 757-66.
4. Cruikshank WW, Center DM, Nisar N, et al. 1994. Proc Natl Acad Sci U S A, 91: 5109-13.
5. Mathy NL, Scheuer W, Lanzendorfer M, et al. 2000. Immunology, 100: 63-9.

APEx BIO Technology

www.apexbt.com

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com