



Technical Data Sheet

Recombinant Murine Interleukin-33 (rMu IL-33)

Interleukin-33

IL-33 is a proinflammatory protein that shares structural and functional characteristics with the IL-1 cytokine family. It binds and signals through the IL-1RL1/ST2 receptor activating NF-kappaB and MAP kinases. IL-33 induces production of TH2 cell related cytokines, including IL-4, IL-5 and IL-13, and exerts multiple inflammation related bioactivities.

Catalog Number:	RC232-44
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 17.5 kDa protein containing 158 amino acid residues.
Quantity:	2ug/10ug/1mg
Purity:	>98% by SDS-PAGE and HPLC analyses.
Biological Activity:	The ED ₅₀ was determined by the dose-dependent stimulation of the proliferation of murine D10S cells is ≤ 0.5 ng/ml, corresponding to a specific activity of $\geq 2 \times 10^6$ units/mg.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 μ m filtered solution in PBS, EDTA and DTT.
AA Sequence:	SIQGTSLLTQ SPASLSTYND QSVSFVLENG CYVINVDDSG KDQEQDQVLL RYESPCPAS QSGDGVVGKK LMVNMSPDK TDIWLHANDK DYSVELQRGD VSPPEQAFFV LHKSSDFVS FECKNLPGTY IGVKDNQLAL VEEKDESCNN IMFKLSKI
Endotoxin:	Less than 1EU/ μ g of rMuIL-33 as determined by LAL method.
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 $\leq -20^\circ\text{C}$. Further dilutions should be made in appropriate buffered solutions.
Storage:	This lyophilized preparation is stable at 2-8 $^\circ\text{C}$, but should be kept at -20 $^\circ\text{C}$ for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 $^\circ\text{C}$. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 $^\circ\text{C}$ to -70 $^\circ\text{C}$. Avoid repeated freeze/thaw cycles.
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