
Product Data Sheet

Product Name: IL33 Mouse, His
 Cat. No.: GP20648
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	9230117N10Rik; Il-33; Il1f11; NF-HEV; Interleukin-33.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSSIQGTSL LTQSPASLST YNDQSVSFVL ENGCVINVD DSGKDQEQDQ VLLRYYESPC PASQSGDGVD GKMLMVNMSP IKDTDIWLHA NDKDYSVELQ RGDVSPPEQA FVLHKKSSD FVSFECKNLP GTYIGVKDNQ LALVEEKDES CNNIMFKLSK I.		
Formulation	IL33 protein solution (0.5mg/ml) containing Phosphate buffered saline, 10% glycerol and 1mM DTT.		

Introduction

Interleukin 33 (IL-33) is a 32kDa proinflammatory cytokine that may also regulate gene transcription in producer cells. IL-33 is structurally related to IL-1, which induces helper T cells to produce type 2 cytokines and acts through the receptor IL1RL-1 (IL1 receptor-like-1), which is known also as ST2. Binding of IL-33 to this receptor activates NF-kappa-B and MAP kinases and induces in vitro Th2 cells to produce cytokines. In vivo, IL-33 induces expression of IL-4, IL-5, IL-13 and leads to severe pathological changes in mucosal organs and in vitro, it can be divided to N-terminal fragment of 12kDa and C-terminal fragment of 18kDa by cleavage of caspase-1.

Biological Activity

Measured in a cell proliferation assay using D10.G4.1 mouse helper T cells. The ED50 for this effect is 6 μ g/ml.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

Caution: Product has not been fully validated for medical applications. For research use only.

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

IL33 Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 181 amino acids (109-266 a.a) and having a molecular mass of 18.1kDa. IL33 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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