

BACKGROUND

Interleukin 29 (IL-29), also known as IFN λ 1, is a type III interferon produced by virally infected cells. It is thought to play an important role in host defenses against multiple microbes and shares homology with IL-28.

Recombinant human IL-29 is a non-glycosylated protein, containing 179 amino acids and having a molecular mass of 19.9 kDa.

Alternative Names:

IFN γ 1, Type III interferon

Amino Acid Sequence:

MPTSKPTTTG KGCHIGRFKS LSPQELASFK KARDALEESL
KLKNWSCSSP VFPGNWDRL LQVRERPVAL EAELATLKV
LEAAAGPALE DVLQPLHTL HHLSQLQAC IQPQPTAGPR
PRGRLHHWLH RLQEAPKKES AGCLEASVTF NLFRLLRDL
KYVADGNLCL RTSTHPEST

TECHNICAL INFORMATION

Source: *E.coli*

Physical Appearance:

Sterile Filtered white lyophilized (freeze-dried) powder.

Formulation:

Recombinant human IL-29 is lyophilized with no additives.

Stability:

Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

Reconstitution:

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/ml, which can be further diluted into other aqueous solutions.

Protein Content and Purity determined by:

- UV spectroscopy at 280 nm
- RP-HPLC calibrated against a known standard
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

Endotoxin Level:

Endotoxin level, as measured by LAL analysis, is <0.01ng/ug or <0.1EU/ug.

Biological Activity:

The activity is determined by an anti-viral assay of EMC infected HepG2 cells and is typically 1-5 ng/mL.

Products are for research use only. They are not intended for human, animal, or diagnostic applications.

