

Recombinant Human Interferon-alpha4a, Yeast

Information

Gene ID	
Accession #	
Alternate Names	
Source	Yeast
M.Wt	Approximately 19.4 kDa, a single polypeptide chain containing 166 amino acids.
AA Sequence	CDLPQTHSLG NRRALILLAQ MGRISHFSCL KDRHDFGFPE EEFDGHQFQK AQAI SVLHEM IQQTFNLFST EDSSAAWEQS LLEKFSTELY QQLNDLEACV IQEVGVEETP LMNEDSILAV RKYFQRITLY LTEKKYSPCA WEVVRAEIMR SLSFSTNLQK RLRRKD
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 solution in PBS, pH 7.0.
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	Test in processing.
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	10µg	100µg	500µg
Recombinant Human Interferon-alpha4a, Yeast	10µg	100µg	500µg

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	> 95 % by SDS-PAGE analyses.
Endotoxin	Less than 1 EU/μg of rHuIFN-α4a, Yeast as determined by LAL method.

Description

Interferon-alpha (IFN-alpha), also known as leukocyte interferon, represents a group of related but distinct proteins that share over 95% amino acid sequence homology. They are mainly involved in innate immune response against viral infection. The IFN- α family has 13 subtypes and 23 different variants. The individual proteins have molecular masses between 19-26 kDa and consist of proteins with lengths of 156-166 and 172 amino acids. All IFN- α subtypes possess a common conserved sequence region between amino acid positions 115-151 while the amino-terminal ends are variable. Interferon-alpha 4 (IFNA4) belongs to the alpha interferon family. IFNA4 is a secreted protein and produced by macrophages. Two variants of IFNA4 (IFNA4a and IFNA4b) are known, which differ from each other by changes in their coding regions at nucleotide positions 220 and 410.

Reference

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