Recombinant Human Interferon-alpha4a, Yeast (rHuIFN-α4a, Yeast)

ChemWhat Technical Data Sheet (TDS)

Catalog Number:	106-12Y
Source:	*Yeast*
Molecular Weight:	Approximately 19.4 kDa, a single polypeptide chain containing 166 amino acids.
Quantity:	10μg/100μg
AA Sequence:	CDLPQTHSLG NRRALILLAQ MGRISHFSCL KDRHDFGFPE EEFDGHQFQK AQAISVLHEM IQQTFNLFST EDSSAAWEQS LLEKFSTELY QQLNDLEACV IQEVGVEETP LMNEDSILAV RKYFQRITLY LTEKKYSPCA WEVVRAEIMR SLSFSTNLQK RLRRKD
Purity:	> 95 % by SDS-PAGE analyses.
Biological Activity:	Test in processing.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 μm filtered solution in PBS, pH 7.0.
Endotoxin:	Less than 1 EU/μg of rHuIFN-α4a, Yeast 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 ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
Shipping:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
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.
Usage:	**ChemWhat Limited in UK offers this branded product for research, development or further** evaluation purposes. **NOT FOR HUMAN USE.**

Human Interferon-alpha4a

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.