

Datasheet for 009-001-V18-0020**rHuman INF alpha 2a Protein****Overview**

Description:	Human Interferon-alpha 2a Recombinant Protein - 009-001-V18-0020
Item No.:	009-001-V18-0020
Size:	20 µg
Applications:	SDS-PAGE
Origin:	Human
Expressed in:	E. coli

Product Details

Background:	Interferon-alpha 2a (IFN α 2a) is a Type I interferon made by leukocytes during viral infection. It has anti-viral and non-proliferative activity induced by JAK1-STAT signaling. IFN-alpha 2s are the most widely used type for therapeutic purposes. IFN α 2b is a variant of IFN α 2a that differs by one amino acid. Recombinant human IFN α 2a is a non-glycosylated protein, containing 166 amino acids, with a molecular weight of 19.37 kDa.
Synonyms:	Interferon alpha-A (LeIF A) Type I Interferon, Alpha 2
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein
Low Endotoxin:	Yes

Target Details

Gene Name:	IFNA2
Purity/Specificity:	Interferon-alpha 2a purity was determined to be greater than 98% as determined by HPLC and by reducing and non-reducing SDS-PAGE.
Relevant Links:	• UniProtKB - P01563

Application Details

Tested Applications:	SDS-PAGE
Application Note:	Interferon-alpha 2a Recombinant Protein has been tested by SDS-PAGE and is suitable as a control for polyclonal or monoclonal anti-Interferon-alpha 2a in immunological assays.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
Other:	Endotoxin Level: Measured by kinetic LAL analysis and is typically ≤ 1 EU/ μ g protein. Biologic Activity: The activity is determined by the ability induce antiviral activity.

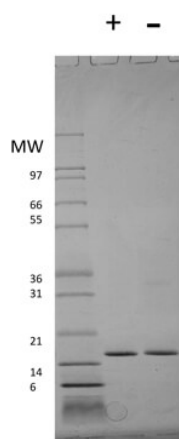
Formulation

Physical State:	Lyophilized
Concentration:	0.1 mg/mL by UV absorbance at 280 nm
Preservative:	None
Stabilizer:	None
Reconstitution Volume:	200 μ L
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at -20° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product lyophilized in 10 mM sodium phosphate and 140 mM NaCl, pH 7.4 and DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.
Expiration:	Expiration date is six (6) months from date of receipt.

Images

**SDS-PAGE**

SDS-PAGE of Human Interferon-alpha 2a Recombinant Protein. Lane 1: Molecular weight marker. Lane 2: 1 μ g Human IFN alpha 2A in reducing conditions (+). Lane 3: 1 μ g Human IFN alpha 2A in non-reducing conditions (-). Human IFN alpha 2A has a predicted MW of 19.4 kDa.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.