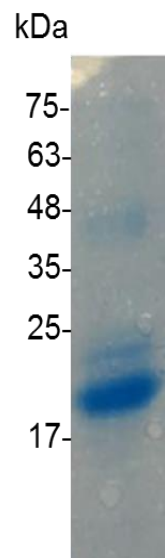


**IFN alpha 1a (Interferon alpha 1a), Human**

v. 231001

<b>Catalog number</b>	C01078-5UG / C01078-20UG / C01078-100UG
<b>Package</b>	5 µg / 20 µg / 100 µg
<b>Description</b>	Interferon alpha-1 or interferon alpha-D, encoded by the human IFNA1 gene, is a member of the type I interferon family. It is expressed in peripheral blood leukocytes and lymphoblastoid cells. There are four highly conserved cysteine residues which form two disulfide bonds. One bond is a necessity for biological activity, which plays a critical role in conducting non-specific resistance against a variety of viral infections, and regulation of cell proliferation and modulates immune responses.
<b>Source</b>	<i>Escherichia coli</i>
<b>Sequence</b>	CDLPETHSLDNRRTLMMLLAQMSRISPSSCLMDRHDFGFPQEEFDGNQFQKAP AISVLHELIIQQIFNLFITTKDSSAAWDEDLLDKFCTELYQQQLNDLEACVMQEERV GETPLMNADSILAVKKYFRITLYLTEKKYSPCAWEVVRAEIMRSLSLSTNLQER LRRKE with polyhistidine tag at the N-terminus
<b>Endotoxin level</b>	<0.1 EU per 1 µg of the protein by the LAL method.
<b>Activity</b>	Measure by its ability to inhibit IL-8 secretion in human PBMCs in the presence of LPS. The ED <sub>50</sub> for this effect is <1.12 µg /mL.
<b>Purity</b>	>98% as determined by SDS-PAGE.
<b>Form</b>	Lyophilized
<b>Storage Buffer</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 8.0.
<b>Reconstitution</b>	It is recommended to reconstitute the lyophilized protein in sterile H <sub>2</sub> O to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
<b>Stability &amp; Storage</b>	This product is stable after storage at: <ul style="list-style-type: none"> <li>• -20°C for 12 months in lyophilized state from date of receipt.</li> <li>• -20°C or -80°C for 1 month under sterile conditions after reconstitution.</li> </ul> Avoid repeated freeze/thaw cycles.



SDS-PAGE analysis of recombinant human IFN alpha 1a

*For research use only.*