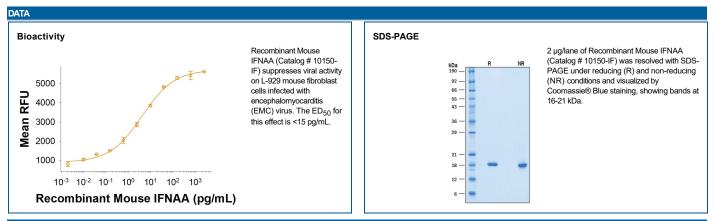


Catalog Number: 10150-IF

DESCRIPTION	
Source	Chinese Hamster Ovary cell line, CHO-derived mouse IFNAA protein Cys24-Glu190 Accession # Q61718
N-terminal Sequence Analysis	Cys24
Predicted Molecular Mass	19.3 kDa

SPECIFICATIONS	
SDS-PAGE	16-21 kDa, under reducing conditions
Activity	Measured in an anti-viral assay using L-929 mouse fibroblast cells infected with encephalomyocarditis (EMC) virus. Vogel, S.N. <i>et al.</i> (1982) Infect. Immunol. 38 :681. The ED ₅₀ for this effect is <15 pg/mL.
Endotoxin Level	<0.10 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

PREPARATION AND STORAGE	
Reconstitution	Reconstitute at 100 μg/mL in PBS.
Shipping	The product is shipped with polar packs. 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.



BACKGROUND

Interferon-alpha A (IFNAA), also referred to as interferon-alpha 15 (IFNA15), is one of 14 subtypes within the IFN-alpha family (1). The members of the IFN-alpha family, also known as alpha leukocyte interferons, encompass a group of distinct but closely related proteins which share approximately 80% amino acid (aa) sequence identity and have a similar globular structure composed of five alpha-helices (1-3). IFN-alpha family members signal through a common set of cell surface receptor complex composed of IFNAR2 and IFNAR1 subunits (2). The mature extracellular domain (ECD) of mouse IFNAA is 167 aa and shares 93% and 92% aa sequence identity with mouse and rat, respectively. Most of the members of the murine IFN-alpha family are N-glycosylated, however IFNAA is one of 4 members that lacks a N-glycosylation site (3). IFNAA is one of the many interferon alpha subtypes belonging to the Type I leukocyte IFN family. The Type I IFN family has antiviral, anti-proliferative and natural killer cell activities.

MANUFACTURING SPECIFICATIONS

- 1. Pestka, S. (2007) J Biol Chem. 282:20047.
- 2. Oritani, K. et al. (2001). Cytokine & Growth Factor Reviews, 12:337.
- 3. Pesch, V. et al. (2004). Journal of Virology, 78:8219.

Rev. 10/3/2019 Page 1 of 1



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