

Product Data Sheet

Recombinant Mouse IFN-γ (carrier-free)

Catalog # / Size: 575302 / 10 µg

575304 / 25 μg 575306 / 100 μg 575308 / 500 µg

Source: Mouse IFN-γ, amino acids His23-Cys155 (Accession # NM_008337) was expressed in E. coli.

Molecular Mass: The 134 amino acid N-terminal methionylated recombinant protein has a predicted molecular mass of 15,652 Da. The

DTT-reduced and non-reduced protein migrate at approximately 13 kD by SDS-PAGE.

Purity: Purity is >98%, as determined by Coomassie stained SDS-PAGE.

Endotoxin Level: Endotoxin level is <0.1 EU/µg (<0.01ng/µg) protein as determined by the LAL method.

Activity: The ED₅₀ is 0.2-0.6 ng/ml, corresponding to a specific activity of 5 - 1.67 x 10⁶ units/mg, as determined by inhibition

of WEHI-279 cell proliferation induced by mouse IFNy.

Preparation: 10-100µg sizes are bottled at 100µg/ml. 500µg and larger sizes are bottled at the concentration indicated on the vial.

Formulation: 0.22 µm filtered protein solution is in 20 mM HEPES, 150 mM NaCl, 5 mM TCEP; pH 7.2

Storage: Unopened vial can be stored from -20°C to -70°C for six months. For maximum results, quick spin vial prior to

opening. Stock solutions should be prepared at no less than 10 µg/ml in buffer containing carrier protein such as 1% BSA or HSA or 10% FBS. After dilution, the cytokine can be stored at 4°C for one month or from -20°C to -70°C for up

to 3 months. Avoid repeated freeze/thaw cycles.

Applications:

Applications: Bioassay

Recommended Usage: Use when high specific biological activity is required.

Application References: 1. Reynolds DS, et al. 1987. J. Immunol. 139:767. (BA) 2. Dey S, et al. 2010. Mol. Cell. Biol. 30:2181. PubMed

3. Sun T, et al. 2012. Proc. Natl. Acad. Sci. USA 109:E2117. PubMed

Description: Interferon-y is a potent multifunctional cytokine which is secreted primarily by activated NK cells and T cells. Originally

characterized based on anti-viral activities, IFN-γ also exerts anti-proliferative, immunoregulatory, and

proinflammatory activities. IFN-γ can upregulate MHC class I and II antigen expression by antigen-presenting cells.

Antigen References: 1. Fitzgerald K, et al. Eds. 2001. The Cytokine FactsBook. Academic Press San Diego.

2. De Maeyer E, et al. 1992. Curr. Opin. Immunol. 4:321. 3. Farrar M, et al. 1993. Annu. Rev. Immunol. 11:571.

4. Gray P, et al. 1987. Lymphokines 13:151.



