

Recombinant Human IFN-alpha B2/IFNA8 Protein (His, Flag)

Information

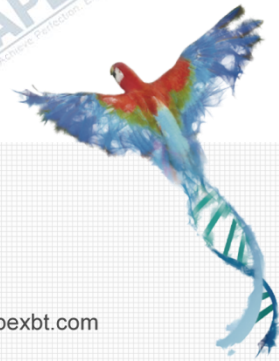
Gene ID	3445
Accession #	P32881
Alternate Names	Interferon alpha-8, IFN-alpha-8, Interferon alpha-B (LeIF B) , Interferon alpha-B2, IFNA8
Source	HEK293
Protein sequence	CDLPQTHSLGNRRALILLAQMRRISPFSLKDRHDFEFPQEEFDDKQFQKAQAISVLHEMIQQTFNLFSTKD SSAALDETLLEDFYIELDQQLNDLESCVMQEVGVIESPLMYEDSILAVRKYFQRITLYLTEKKYSSCAWEVVR AEIMRSFSLINLQKRLKSKE
Tag	C-His & C-Flag
M.Wt	The protein has a calculated MW of 22.4 KDa.
Appearance	Solution protein
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles - 36 months from date of receipt, -20 to -70°C as supplied
Concentration	1 mg/mL
Formulation	Supplied as a 0.2 µm filtered solution in PBS, pH7.4.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. This solution can be diluted into other aqueous buffers.
Biological Activity	Fully biologically active as determined by detecting the activation level of ISRE in HEK293 cells transfected with pISRE_TA_Luc. The EC50 for this effect is 0.2 ng/mL.
Shipping Condition	Shipping with dry ice.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Quality Control

Purity	> 95 % by SDS-PAGE.
Endotoxin	Less than 1.0 EU/µg as determined by LAL method.

Description

Human interferon alpha-8 (Interferon alpha-8, abbreviated as IFN- α -8, also known as interferon alpha-B/LeIF B and interferon alpha-B2) is a type I interferon cytokine encoded by the IFNA8 gene and primarily produced by macrophages. Functionally, interferon alpha-8 exerts its core antiviral effects by stimulating the production of protein kinase and oligoadenylate synthetase. It is also broadly involved in various biological processes, including adaptive immunity, humoral immunity, defense response to viruses, and the activation of B cells, T cells, and natural killer cells, thereby mediating the type I interferon signaling pathway. Furthermore, this protein directly interacts with GPR152 and serves as a component of the interferon alpha receptor-ligand complex (CPX-6001). In basic research, it serves as a model protein for studying antiviral immune mechanisms, and its recombinant form holds significant application value in the development of drugs for treating specific viral infections and tumors.



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