
Product Data Sheet

Product Name: IL 28A Human, His
 Cat. No.: GP20634
 Batch No.: 1

Product Data

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|---------------------|--|--------------------|-------------------------|
| Purity | >98% | Source | Escherichia Coli. |
| Physical Appearance | solid | Shipping Condition | Shipped with Ice Packs. |
| Synonyms | Interleukin-28A; IL-28A; IFN-Lambda 2; Interferon-Lambda 2; Cytokine ZCYTO20; IL28A; IFNL2; ZCYTO20. | | |
| Amino Acid Sequence | MGSSHHHHHH SSGLVPRGSH MGSVPVARLH GALPDARGCH IAQFKSLSPQ ELQAFKRAKD ALEESLLLKD CRCHSRLFPR TWDLRQLQVR ERPMALEAEL ALTLKVLEAT ADTDPALVDV LDQPLHTLHH ILSQFRACIQ PQPTAGPRTR GRLHHWLYRL QEAPKKESPG CLEASVTFNL FRLLTRDLNC VASGDLCV . | | |
| Formulation | IL 28A protein solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 10% glycerol and 0.4M Urea. | | |

Introduction

IL-28A is distantly related to type I interferons and the IL-10 family. Expression of IL-28A is induced by viral infection which interacts with a heterodimeric class II cytokine receptor that consists of interleukin 10 receptor, beta (IL10RB) and interleukin 28 receptor, alpha. IL-28A exhibits common features with type I IFNs such as antiviral activity, antiproliferative activity and in vivo antitumour activity. IL-28A acts similarly to IFNs, but is less effective generally and has activity in a more limited range of cell lines. IFN-ambda 1, IFN-lambda 2 and IFN-lambda 3 are closely positioned genes on human chromosome 19. IL-28A induces ELR(-) CXC chemokine mRNA in human peripheral blood mononuclear cells, in an IFN-gamma-independent manner. IL-28A is able to generate tolerogenic DCs, an activity that could thwart IFN-beta functions. IL-28A produced in response to viral infection, activates both monocytes and macrophages producing a restricted panel of cytokines and therefore is an important factor in activating innate immune responses at the site of viral infection.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

IL 28A Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 198 amino acids (26-200 a.a.) and having a molecular mass of 22.1kDa. IL 28A is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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