PERFORMANCE DATA SHEET
1819

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Human CD127(IL-7Rα)-muIg Fusion Protein*

CATALOG#: 539-020
QUANTITY: 25 µg **CONCENTRATION: 0.5 mg/ml**

Molecular Structure: A soluble molecule consisting of murine CD8 alpha signal peptide residual amino acids and linker:
(1)**kpqapelrgs**(10)
the mature extracellular domain of human CD127 (IL-7Rα):
(11)**esgyaqngdledaelddysfscysqlevngsqhsltcafedpdvnitnlefeicgalvevkclnfrklqeiyfietkkflligksnicvkvgeksltckkidlttivkpeapf dlsvvyregandfvvtfntshlqkkyvkvlmhdvayrqekdenkwthvnlsstkltllqrklqpaamyeikvrsipdhyfkgfwsewspsyyfrtpeinnssgemd**(2 29)
murine IgG2a Fc + hinge regions:
(230)**gteprgptikpcppckcpapnllggpsvfifppkikdvlmislspivtcvvvdvseddpdvqiswfvnnvevhtaqtqthredynstlrvvsalpiqhqdwmsg kefkckvnnkdlpapiertiskpkgsvrapqvyvlpppeeemtkkqvtltcmvtdfmpediyvewtnngktelnyknteptvldsdgsyfmysklrvekknwvern syscsvvheglhnhhttksfsrtpgk**(464)

(464 aa total). The molecule is dimeric with a predicted monomeric non glycosylated molecular weight of 52.8 kd.
Transfectant Cell Line: CHO

INFORMATION: CD127 (IL-7Rα) is the specific receptor component for the cytokine Interleukin -7 (IL-7). It is found on a wide variety of hematopoietic cell types including B cell precursors, and the majority of T cells. Its expression levels are decreased on T cells following activation. CD127 can dimerize with CD132(IL-2Rγ) to form a high affinity IL-7 receptor (1). CD127 engagement is necessary for T cell development in humans (2).

References: 1) Noguchi, M. *et al*., 1993, Science **262**:1877. 2) Pribyl, J.A. and T.W. LeBien, 1996, Proc. Natl. Acad. Sci. **93**:10348. 3) Goodwin RG, Friend D, Ziegler SF, et al. *Cell.* 1990;60:941.

STORAGE CONDITIONS: ***Store at 2 - 5^{o}C***. Freeze/Thawing is not recommended.

PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:_____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 0.5mg/ml Gentamicin Sulfate (as a preservative).

PRODUCTION: Human CD127-muIg fusion protein was Protein A purified from (low FBS containing) tissue culture supernatant of CHO transfectants.

PERFORMANCE: Recombinant soluble CD127-muIg was reactive with anti-CD127 clone 40131 as well as clone ANC8F2 (catalog #348-030) in EIA and FACS.

****This Product is intended for Laboratory Research use only.***

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