

DATASHEET

Version 20181206

CD19 Fc Chimera, Human

Cat. No.: Z03407-1

Size: 1.0 mg

Synonyms: CD19; Leu-12; B4; B-lymphocyte antigen

Description:

CD19 is a 95 kDa coreceptor, which amplifies the signaling cascade in B cells. On the B cell surface, CD19 associates with CD21, CD81 and Leu-13 to exert its function. The cytoplasmic tail of CD19 has nine conserved tyrosine residues playing critical roles in CD19 mediated function by coupling signaling molecules to the receptor. Mature human CD19 consists of a 272aa extracellular domain (ECD) with two Ig-like domains, a 22aa transmembrane segment, and a 243aa cytoplasmic domain.

Recombinant Human CD19 Fc Chimera produced in CHO cells is a polypeptide chain containing 505 amino acids with the C-terminal human IgG1 Fc fragment. A fully biologically active molecule, rhCD19 a molecular mass of 62 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Amino Acid Sequence:

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00001 PEEPLVVKVE EGDNAVLQCL KGTS DGPTQQ LTWSRESPLK
00041 PFLKLSLGLP GLGIHMRPLA IWLFI FNVSQ QMGGFYLCQP
00081 GPPSEKAWQP GWTNVVEGSG ELFRWNVSDL GGLGCGLKNR
00121 SSEGPSSPSG KLMSPKLYVW AKDRPEIWEG EPPCLPPRDS
00161 LNQSLSQDLT MAPGSTLWLS CGVPPDSVSR GPLSWTHVHP
00201 KGPKSLLSLE LKDDRPARDM WVMETGLLLP RATAQDAGKY
00241 YCHRGNL TMS FHLEITARPV LWHWLLRTGG WK
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Source: CHO

Molecular Weight: 62 kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized from a 0.2 µm filtered solution in PBS.

Reconstitution: Reconstituted in ddH₂O or PBS at 100 µg/ml.

Purity: > 95% as analyzed by reducing SDS-PAGE.

Endotoxin Level: < 0.2 EU/µg, determined by LAL method.

Storage: Lyophilized recombinant CD19 Fc Chimera, Human remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Human CD19 should be stable up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.