



Gold Nanoparticles-CD19 PRODUCT DATA SHEET

Gold Nanoparticles-CD19

Description

Chronic lymphocytic leukemia (CLL) is the most common adult leukemia in the United States and Western countries, accounting for more than 30% of leukemias. It is being clinically addressed by chemotherapy, followed by immunotherapy and stem cell transplantation, all with potential life-threatening toxicities. In the need for more effective therapeutics, newly developed disease-targeted nanocompounds can thus hold real potential. CLL diagnosis requires a characteristic phenotype. B-lymphocyte antigen CD19 is also known as CD19 (Cluster of Differentiation 19), is a single-pass type I membrane protein which contains two Ig-like C2-type (immunoglobulin-like) domains. CD19 is expressed on follicular dendritic cells and B cells. In fact, it is present on B cells from earliest recognizable B-lineage cells during development to B-cell blasts but is lost on maturation to plasma cells. It primarily acts as a B cell co-receptor in conjunction with CD21 and CD81. Upon activation, the cytoplasmic tail of CD19 becomes phosphorylated, which leads to binding by Src-family kinases and recruitment of PI-3 kinase. As on T cells, several surface molecules form the antigen receptor and form a complex on B lymphocytes. CD19 is a glycoprotein with a molecular weight of 95 kDa expressed on cell surface, and it is commonly used as a marker for B lymphocytes and B-cell malignancies.

Abvigen offers high quality gold nanoparticles-CD19. The product has high repeatability between batches, which can meet the needs of various customers for personalized materials such as research and development, testing and production.

For custom sizes, formulations or bulk quantities please contact our customer service department.

Website: www.abvigen.com **Phone:** +1 929-202-3014 **Email:** info@abvigenus.com



Characteristics

Type: Gold Nanoparticles-CD19

Surface: Recombinant Human CD19 (20-291) Protein, His from HEK293

Particle size: 5 nm ~ 100 nm

Storage condition: Store at 4°C. Do not freeze.

Shelf life: 3 months

Applications

Immunotherapeutic agent

Spectroscopic imaging agent

Storage

Store at 4°C. Do not freeze.

Ordering Information

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