

Recombinant Human, CD28 ECD / CD28 Extracellular Domain, His-SUMO Tag, HEK293, Animal Free & Carrier Free

Cat #: C-CYP398

Size: 5µg, 20µg, 100µg, 500µg, 1mg

Shipping: Blue Ice

Product Overview

CD28, a well-known costimulatory receptor expressed on T cells, is a type I transmembrane glycoprotein of the Ig superfamily. When the T cells receive the first signal delivered by APCs (antigen-presenting cells), it initiates signaling cascades, which favor T cell survival and proliferation. It has been demonstrated that patients with lung cancer who responded to PD-1 therapy had more CD28+ T cells, suggesting that CD28 may predict treatment response.

Product Information

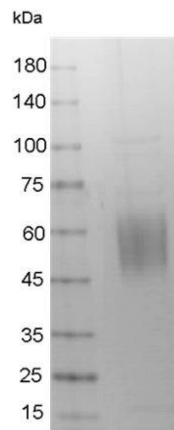
Source: HEK293.

Purity: >95% as determined by SDS-PAGE. Ni-NTA chromatography.

Endotoxin: <0.1EU per 1µg of the protein by the LAL method.

Amino acid sequence: A DNA sequence encoding Human CD28 ECD (#P10747) (Asn19-Pro152) was expressed with polyhistidine-SUMO tag at the N-terminus.

Formulation: Lyophilized from a sterile filtered aqueous solution in 1×PBS, pH 7.4.



SDS-PAGE analysis of Human CD28 ECD, His-SUMO Tag, HEK293

Usage Method

1. Before opening, it is recommended to centrifuge at 3000-3500 rpm for 5 minutes.
2. Reconstitute to a concentration of 0.1-1.0 mg/mL in sterile distilled H₂O. Allow the solution to sit at room temperature for at least 20 minutes to ensure complete dissolution. Avoid vigorous vortexing.
3. The reconstituted solution can be stored at 2-8°C for up to 1 week.
4. For long-term storage, it is recommended to further dilute the solution with a carrier protein (such as 0.1% BSA, 10% FBS, or 5% HSA) to a concentration of no less than 10 µg/mL and aliquot for storage at -20°C to -80°C for 3 to 6 months. If serum-free experiments are required, a 5% trehalose solution can be used as a carrier instead. Avoid repeated freeze-thaw cycles.

Storage

| Physical Appearance | Storage | Stability |
|---------------------------------|----------------|------------------|
| Lyophilized powder | -20°C to -80°C | 1 year |
| Reconstitution (initial) | 2°C to 8°C | Less than 1 week |
| Reconstitution (after dilution) | -20°C to -80°C | 3 to 6 months |

Note

The reagent is only used in the field of scientific research, not suitable for clinical diagnosis or other purposes.