

## Recombinant Human B7-1/CD80 Protein, His tag

### 产品信息

产品名称	产品编号	规格
Recombinant Human B7-1/CD80 Protein, His tag	93572ES25	25 µg
	93572ES60	100 µg
	93572ES76	500 µg
	93572ES80	1mg

### 产品简介

B7-1 is a member of the cell surface immunoglobulin superfamily. CD80 is mainly expressed on the surface of activated B cells, macrophages, dendritic cells and other antigen-presenting cells. B7-1 and B7-2 form co-stimulatory ligands that can interact with the co-stimulatory receptor CD28 expressed on T cells and cytotoxic T lymphocyte-associated antigen 4 (CTLA-4). When interacting with CD28, it is generally used for self-regulation and intercellular binding; When interacting with CTLA-4, it is used to regulate attenuation and cell separation. CD80 plays a role in inducing congenital immune response by activating the NF-κB signaling pathway in macrophages. Therefore, CD80 is considered a promising therapeutic target for autoimmune diseases and various cancers.

### 性能参数

<b>Synonyms</b>	CD80 molecule; B7; B71; B7-1; BB1; CD28LG1; CD80; B7.1; CD28LG1; LAB7
<b>Uniprot No.</b>	P33681
<b>Source</b>	Recombinant Human B7-1 Protein is expressed from HEK293 Cells with His tag at the C-terminal. It contains Val35-Asn242.
<b>Molecular Weight</b>	The protein has a predicted MW of 25.8 kDa. And it migrates as 33 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
<b>Purity</b>	> 95% as determined by SDS-PAGE.
<b>Endotoxin</b>	<0.1 EU per 1µg of the protein by the LAL method.
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4).
<b>Reconstitution</b>	Centrifuge tubes before opening. The concentration of protein solution used for lyophilization is generally 1mg/mL. Dissolve lyophilized protein with sterile water to ensure the concentration is greater than 100 µg/mL.

### 储存条件

The product should be stored at -25~-15°C for 1 year from date of receipt.

2-7 days, 2~8 °C under sterile conditions after reconstitution.

3 months, -25~-15°C under sterile conditions after reconstitution.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

## 注意事项

1. Please operate with lab coats and disposable gloves, for your safety.
2. This product is for research use only.

## 产品数据

### SDS-PAGE

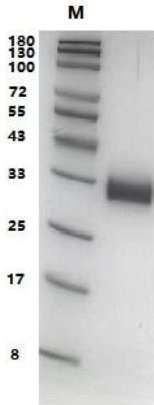


Figure 1. Human B7-1 on SDS-PAGE under reduced condition. The purity is greater than 95%.

### Bioactivity -SPR Data

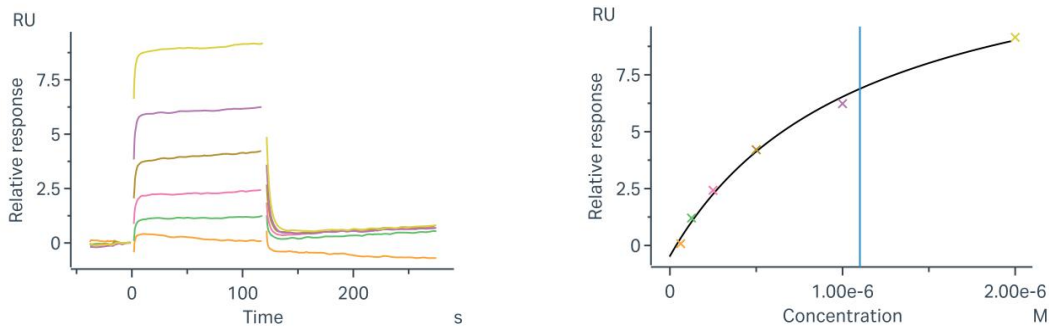


Figure 2. Human CTLA-4 immobilized on CM5 chip can bind human B7-1, his Tag with an affinity constant of  $1.10 \mu\text{M}$  as determined in a SPR assay (Biacore 8K).