

# ANTIGENIX AMERICA, INC.

## PRODUCT INFORMATION SUMMARY

### Human sCD28 (Fc)

Purified Factor	Product Number	HC67737A	20.0 ug
		HC67737B	100.0 ug

#### DESCRIPTION:

Human CD28 (T-Cell specific glycoprotein CD28) also known as TP44, is a receptor (along with CTLA-4) of the immunoglobulin super-family. CD28 and related ligands are expressed on antigen presenting cells and play crucial role in T and B cell regulation and immune response. Ligands B7-1 and B7-2, reacting with CD28 stimulate T-Cell activation. CD28 is expressed on resting T cells and allows for early co-stimulatory signaling of immune response.

This recombinant human CD28 (Fc) is a glycosylated homodimer with 734 aa. residues, with 134 aa. monomer extracellular domain. Total molecular weight (dimer with fusion protein) is approximately 82 kDa, but gel migration shows apparent MW of approx. 60 kDa (monomer) and 150 kDa (dimer) by SDS-PAGE reducing conditions.

**SOURCE:** CHO cells  
Purity > 95% by HPLC analysis  
Endotoxin < 0.1 ng per ug Human CD28

#### BIOLOGICAL ACTIVITY:

Ability to bind B7-1 protein in functional ELISA.

#### HANDLING AND STORAGE:

Purified Human CD28 factor is provided lyophilized and free of additives. Store lyophilized, at -20° C. **Spin-down** vial prior to opening.

**Reconstitute with 50 uL distilled water**, then further dilute in PBS or other buffered solutions containing 0.1% BSA. Store small aliquots at -20° C, with addition of 0.1% BSA, for long-term storage -up to 3 months, at high concentration.

**Microcentrifuge before reconstitution.** Because ANTIGENIX factors are provided without carrier proteins like sucrose or BSA, the small quantities of lyophilized protein can adhere to the sides and cap of the vial during manufacture. **Before opening the vial**, we recommend micro-centrifuging for 30 seconds to spin-down all material.

**RESEARCH USE ONLY -NOT for DRUG USE**

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