

## Active Recombinant Human CD28, HIgG1 Fc-tagged

**Cat. No.** CD28-378H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | The extracellular domain of human CD28 (AAA60581.1) (Asn19-Pro152) is fused to the N-terminus of the Fc region of human IgG1 was expressed in CHO cell.                                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                   |
| <b>Source</b>           | CHO                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>    | 19-152 a.a.                                                                                                                                                                                                                                             |
| <b>Description</b>      | The protein encoded by this gene is essential for T-cell proliferation and survival, cytokine production, and T-helper type-2 development. Several alternatively spliced transcript variants encoding different isoforms have been found for this gene. |
| <b>Form</b>             | Lyophilized from 0.2µm-filtered solution in PBS.                                                                                                                                                                                                        |
| <b>Bio-activity</b>     | Measured by its ability to inhibit IL-2 secretion by stimulated Jurkat human acute T cell leukemia cells.                                                                                                                                               |
| <b>Molecular Mass</b>   | 41 KDa (monomer)                                                                                                                                                                                                                                        |
| <b>AA Sequence</b>      | Asn19-Pro152                                                                                                                                                                                                                                            |
| <b>Endotoxin</b>        | <0.06 eu/µg="" as="" determined="" by="" lal="" test="">                                                                                                                                                                                                |
| <b>Purity</b>           | >98%, by SDS-PAGE under reducing conditions.                                                                                                                                                                                                            |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                            |                                                                                                                                                                     |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>           | Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.                                 |
| <b>Reconstitution</b>      | Reconstitute at 100µg/ml in sterile PBS.                                                                                                                            |
| <b>Warning</b>             | Avoid freeze/thaw cycles.                                                                                                                                           |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                     |
| <b>Gene Name</b>           | CD28 CD28 molecule [ Homo sapiens ]                                                                                                                                 |
| <b>Official Symbol</b>     | CD28                                                                                                                                                                |
| <b>Synonyms</b>            | CD28; CD28 molecule; CD28 antigen (Tp44); T-cell-specific surface glycoprotein CD28; T cell specific surface glycoprotein; CD28 antigen; Tp44; MGC138290;           |
| <b>Gene ID</b>             | 940                                                                                                                                                                 |
| <b>mRNA Refseq</b>         | NM_001243077                                                                                                                                                        |
| <b>Protein Refseq</b>      | NP_001230006                                                                                                                                                        |
| <b>MIM</b>                 | 186760                                                                                                                                                              |
| <b>UniProt ID</b>          | P10747                                                                                                                                                              |
| <b>Chromosome Location</b> | 2q33                                                                                                                                                                |
| <b>Pathway</b>             | Adaptive Immune System, organism-specific biosystem; Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem; Autoimmune thyroid |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

disease, organism-specific biosystem; Autoimmune thyroid disease, conserved biosystem; CD28 co-stimulation, organism-specific biosystem; CD28 dependent PI3K/Akt signaling, organism-specific biosystem;

**Function**

SH3/SH2 adaptor activity; coreceptor activity; identical protein binding; protease binding; protein binding; protein homodimerization activity;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA