



**Catalog Number:** PR27293

**Product Type:** Recombinant Protein

**Source:** Sf9, Baculovirus Cells

**Amino Acid Sequence:** FKIPIEELED RVFVNCNTSI TWVEGTVGTL LSDITRLDLG KRILDPRGIY RCNGTDIYKD  
KESTVQVHYR MCQSCVELDP ATVALEPKSC DKTHTCPPCP APELLGGPSV FLFPPKPKDT  
LMISRTPEVT CVVVDVSHED PEVKFNWYVD GVEVHNAKTK PREEQYNSTY RVVSVLTVLH  
QDWLNGKEYK CKVSNKALPA PIEKTISKAK GQPREPQVYV LPPSRDELTK NQVSLTCLVK  
GFYPSDIAVE WESNGQPENN YKTTTPVLDS DGSFFLYSKL TVDKSRWQQG NVFSCSVMHE  
ALHNHYTQKS LSLSPGKHHH HHH.

**Description/Molecular Mass:** CD3D, also known as Delta Polypeptide (TIT3 Complex), is a single-pass type 1 membrane protein. CD3D jointly with CD3-zeta, CD3-gamma, CD3-epsilon and the T-cell receptor alpha/beta and gamma/delta heterodimers, creates the T-cell receptor-CD3 complex. Once antigen presenting cells (APCs) activate T-cell receptor (TCR), TCR-mediated signals are transferred through the cell membrane by the CD3 chains CD3D, CD3E, CD3G and CD3Z. Likewise, CD3D takes an important part in adaptive immune response and participates in thymocyte differentiation.

CD3D produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain (22-105 a.a.) and fused to a 239 aa hlgG-His-tag at C-terminus containing a total of 323 amino acids and having a molecular mass of 36.5kDa.

CD3D shows multiple bands between 40-57kDa on SDS-PAGE, reducing conditions and purified by proprietary chromatographic techniques.

**Purity:** Greater than 90.0% as determined by:  
(a) Analysis by SDS-PAGE.

**Format:** CD3D protein solution (0.5mg/ml) contains 10% glycerol & Phosphate buffered saline (pH7.4).

**Storage:** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage, it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### FOR RESEARCH USE ONLY

NEUROMICS' REAGENTS ARE FOR IN VITRO AND CERTAIN NON-HUMAN IN VIVO EXPERIMENTAL USE ONLY AND NOT INTENDED FOR USE IN ANY HUMAN CLINICAL INVESTIGATION, DIAGNOSIS, PROGNOSIS, OR TREATMENT. THE ABOVE ANALYSES ARE MERELY TYPICAL GUIDES. THEY ARE NOT TO BE CONSTRUED AS BEING SPECIFICATIONS. ALL OF THE ABOVE INFORMATION IS, TO THE BEST OF OUR KNOWLEDGE, TRUE AND ACCURATE. HOWEVER, SINCE THE CONDITIONS OF USE ARE BEYOND OUR CONTROL, ALL RECOMMENDATIONS OR SUGGESTIONS ARE MADE WITHOUT GUARANTEE, EXPRESS OR IMPLIED, ON OUR PART. WE DISCLAIM ALL LIABILITY IN CONNECTION WITH THE USE OF THE INFORMATION CONTAINED HEREIN OR OTHERWISE, AND ALL SUCH RSKS ARE ASSUMED BY THE USER. WE FURTHER EXPRESSLY DISCLAIM ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

03/08v1

[www.neuromics.com](http://www.neuromics.com)

Neuromics • 5325 West 74<sup>th</sup> Street, Suite 8 • Edina, MN 55439  
phone 866-350-1500 • fax 612-677-3976 • e-mail [pshuster@neuromics.com](mailto:pshuster@neuromics.com)