



## Recombinant Human Complement Factor D

## Datasheet

**Catalog Number:** PR27195

**Product Type:** Recombinant Protein

**Source:** *E. Coli*

**Amino Acid Sequence:** MGSSHHHHHH SSSLVPRGSH MILGGREAEA HARPYMASVQ LNGAHLGGV LVAEQWVLSA  
AHCLEDAADG KVQVLLGAHS LSQPEPSKRL YDVLRAVPHD DSQPDITDHD LLLLQLSEKA  
TLGPAVRPLP WQRVDRDVAP GTLCDVAGWG IVNHAGRRPD SLQHVLLPVL DRATCNRRTH  
HDGAITERLM CAESNRRDSC KGDSGGPLVC GGVLEGVVTG GSRVCGNRKK PGYTRVASY  
AAWIDSVLA.

**Description/Molecular Mass:** Complement Factor D (Adipsin), which belongs to the trypsin family of peptidases, is involved in the alternative complement pathway of the complement system where it cleaves factor B. In the alternative complement pathway, Adipsin is best known for its role in humoral suppression of infectious agents. In addition, Adipsin is a serine protease which is secreted by adipocytes into the bloodstream. Ultimately, Adipsin has a high level of expression in fat, proposing a role for adipose tissue in immune system biology.

Adipsin Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 249 amino acids (26-253 a.a) and having a molecular mass of 26.6kDa.

Adipsin is fused to a 21 amino acid His-tag at N-terminus.

**Purity:** Greater than 85.0% as determined by:  
(a) Analysis by SDS-PAGE.

**Format:** Adipsin protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 10% glycerol and 0.4M Urea

**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.

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