



Recombinant Protein Technical Manual

Recombinant Human Factor D Protein (His Tag)

RPES4432

Product Data:

Product SKU: RPES4432

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P00746

Protein Information:

Molecular Mass: 25.8 kDa

AP Molecular Mass: 28 kDa

Tag: COHis

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of 20mM Tris, 150mM NaCl, pH7.5.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Complement factor D; CFD; Adipsin; C3 convertase activator; Properdin factor D; DF; PFD;ADIPSIN;ADN;DF;FACTOR D

Immunogen Information:

Sequence: Ile26-Ala253

Background:

Complement factor D, also known as adipsin, is a member of the chymotrypsin family of serine proteases, which plays an essential role in host defense as the rate-limiting enzyme in the alternative pathway of complement activation. Complement factor D activates a convertase (C3bBb) responsible for cleavage of the complement protein C3, which leads to the activation of terminal complement component C5-9 to form the membrane attack complex on microbial or cellular surfaces. It also functions in the regulation of systemic energy balance and physiologic and pathologic processes, including immunity and inflammation.