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Elabscience Biotechnology Inc.

Elabscience®

Recombinant Human CD3 ε/CD3E Protein (His Tag)(Active)

Catalog No. PKSH033388

Description

Synonyms	T-Cell Surface Glycoprotein CD3 Epsilon Chain; T-Cell Surface Antigen T3/Leu-4 Epsilon Chain; CD3e; CD3E; T3E;CD3 epsilon;IMD18
Species	Human
Expression_host	Human Cells
Sequence	Asp23-Asp126
Accession	NP_000724.1
Mol_Mass	12.8 kDa
AP_Mol_Mass	18 kDa
Tag	C-6His
Bio_activity	Immobilized Human CD3E-His at 10 μg/ml(100 μl/well) can bind Human Anti-CD3. The ED50 of Human CD3E-His is 3.9 ng/ml.

Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ 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 PB, 150mM NaCl, pH 7.2.
Reconstitution	Please refer to the printed manual for detailed information.

Background

T-Cell Surface Glycoprotein CD3 ε Chain (CD3ε) is a single-pass type I membrane protein. CD3ε contains 1 Ig-like (immunoglobulin-like) domain and 1 ITAM domain. CD3ε is a polypeptide encoded by the CD3E gene on chromosome 11 in humans. The T cell receptor-CD3 complex (TCR/CD3 complex) is involved in T-cell development and several intracellular signal-transduction pathways. This complex is critical for T-cell development and function, and represents one of the most complex transmembrane receptors. The T cell receptor-CD3 complex is unique in having ten cytoplasmic immunoreceptor tyrosine-based activation motifs (ITAMs). TCR/CD3 complex plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways.

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