
Product Data Sheet

Product Name: CD3e Human
 Cat. No.: GP23056
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	T-cell surface glycoprotein CD3 epsilon chain; T-cell surface antigen T3/Leu-4 epsilon chain; CD3e; T3E; TCRE.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSDGNEEMG GITQTPYKVS ISGTTVILTC PQYPGSEILW QHNDKNIGGD EDDKNIGSDE DHLSLKEFSE LEQSGYYVCY PRGSKPEDAN FYLYLRARVC ENCMEMD.		
Formulation	The CD3e solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.2M NaCl and 10% glycerol.		

Introduction

CD3-epsilon polypeptide (CD3E) along with CD3-gamma, -delta and -zeta, and the T-cell receptor alpha/beta and gamma/delta heterodimers, creates the T-cell receptor-CD3 complex. This complex has an imperative role in coupling antigen recognition to a number of intracellular signal-transduction pathways. The genes encoding the epsilon, gamma delta polypeptides are found in the same cluster on chromosome 11. The epsilon polypeptide plays a vital role in T-cell development. CD3E gene defects cause immunodeficiency. CD3E is also linked to a susceptibility to type I diabetes in women.

Stability

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.

Background

CD3e Human Recombinant produced in E. coli is a single polypeptide chain containing 127 amino acids (23-126) and having a molecular mass of 14.1kDa. CD3e is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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