

Rev04
 Update: Aug,20,2025

DATASHEET

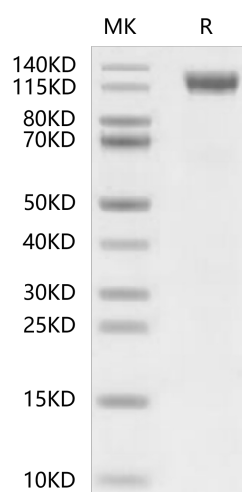
CD45/PTPRC hFc Chimera, Mouse

Cat. No.: Z06053

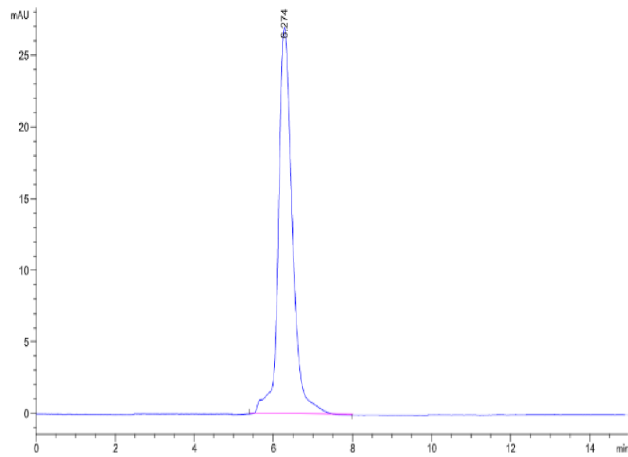
Product Introduction

Species	Mouse
Protein Construction	<div style="display: flex; align-items: center; justify-content: space-between;"> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;"> CD45/PTPRC (Gln26-Lys427)_x000D_ Accession # P06800-6 </div> <div style="background-color: #76b82a; color: white; padding: 5px; text-align: center;"> hFc </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px; font-size: small;"> N-term C-term </div>
Purity	> 95% as determined by BisTris PAGE
Endotoxin Level	Less than 1EU per µg by the LAL method.
Expression System	HEK293
Theoretical Molecular Weight	71.46 kDa
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 100-130 kDa based on Bis-Tris PAGE result.
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4).
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage & Stability	Upon receiving, the product remains stable for 6 months at -20°C or below. Upon reconstitution, the product should be stable for 3 months at -80°C. Avoid repeated freeze-thaw cycles.

Examples



CD45/PTPRC hFc Chimera, Mouse on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.



The purity of CD45/PTPRC hFc Chimera, Mouse is greater than 95% as determined by SEC-HPLC.

Background

Target Background : PTPRC (also known as CD45), T cells require the protein tyrosine phosphatase CD45 to detect and respond to antigen because it activates the Src family kinase Lck, which phosphorylates the T cell antigen receptor (TCR) complex. CD45 activates Lck by opposing the negative regulatory kinase Csk. Paradoxically, CD45 has also been implicated in suppressing TCR signaling by dephosphorylating the same signaling motifs within the TCR complex upon which Lck acts

Synonyms : L-CA; CD45; T200; PTPRC; B220; CD45R; GP180; LCA; LY5; EC 3.1.3.48

For research use only. Not intended for human or animal clinical trials, therapeutic or diagnostic use.

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