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## Product Data Sheet

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Product Name: PTPRC Human  
 Cat. No.: GP22203  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	LCA; LY5; B220; CD45; T200; GP180; Receptor-type tyrosine-protein phosphatase C; Leukocyte common antigen; L-CA; PTPRC.		
Amino Acid Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSVMIA AQGPKKETIG DFWQMIFQRK VKVIVMLTEL KHGDQEICAQ YWGEGKQTYG DIEVDLKDTD KSSTYTLRVF ELRHSKRKDS RTVYQYQYTN WSVEQLPAEP KELISMIQVV KQKLPQKNSS EGNKHHKSTP LLIHCRDGSQ QTGIFCALLN LLESAAETEEV VDIFQVVKAL RKARPGMVST FEQYQFLYDV IASTYPAQNG QVKKNNHQED KIEFDNE.		
Formulation	The PTPRC solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.		

### Introduction

Protein Tyrosine Phosphatase Receptor Type C, also known as PTPRC, which is a vital regulator of T- and B-cell antigen receptor signaling, is also a part of the protein tyrosine phosphatase (PTP) family. PTPs are signaling molecules which regulate a variety of cellular processes including differentiation, cell growth, mitosis, and oncogenic transformation. PTPRC contains an extracellular domain, a single transmembrane segment and 2 tandem intracytoplasmic catalytic domains, and therefore is classified as a receptor type PTP.

### 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

**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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PTPRC Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 257 amino acids (1031-1251a.a) and having a molecular mass of 29.6kDa. PTPRC is fused to a 36 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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