RayBiotech, Inc.
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Certificate of Analysis and Data Sheet

Recombinant Human Pentraxin-3

Catalog No.	**Source:**
228-11347	*Escherichia Coli.*

Synonyms
TSG-14, TNFAIP5, PTX3, Pentraxin-related protein PTX3, Pentaxin-related protein PTX3, Tumor necrosis factor-inducible gene 14 protein, TSG14, pentraxin-related gene rapidly induced by IL-1 beta.

Introduction
PTX3 is part of the pentraxin family sharing the C-terminal domain with short pentraxins and containing a unique N-terminal domain. PTX3 is produced and released at inflammatory sites by various cell types including monocytes/macrophages, endothelial cells, vascular smooth muscle cells, fibroblasts, and adipocytes. PTX3 is involved in the regulation of innate resistance to pathogens, inflammatory reactions, possibly clearance of self-components and female fertility. PTX3 is used as a marker for disease activity of psoriasis. High serum PTX3 levels are associated with the disease severity of systemic sclerosis. Elevated serum PTX3 is associated with pulmonary fungal infections.

Description
Recombinant Human PTX3 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 401 amino acids (18-381 a.a) and having a molecular mass of 44.4 kDa.
PTX3 is fused to a 36 amino acid His Tag at N-terminus and purified by proprietary chromatographic techniques.

Physical Appearance
Sterile filtered colorless solution.

Formulation
The PTX3 protein contains 20mM Tris-HCl buffer pH-8.5, 1mM DTT and 10% glycerol.

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.

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Amino Acid Sequence

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMENS DDYDLMYVNL
DNEIDNGLHP TEDPTPCDCG QEHSEWDKLF IMLENSQMRE RMLLQATDDV
LRGELQRLRE ELGRLAESLA RPCAPGAPAE ARLTSALDEL LQATRDAGRR
LARMEGAEAQ RPEEAGRALA AVLEELRQTR ADLHAVQGWA ARSWLPAGCE
TAILFPMRSK KIFGSVHPVR PMRLESFSAC IWVKATDVLN KTILFSYGTK
RNPYEIQLYL SYQSIVFVVG GEENKLVAEA MVSLGRWTHL CGTWNSEEGL
TSLWVNGELA ATTVEMATGH IVPEGGILQI GQEKNGCCVG GGFDETLAFS
GRLTGFNIWD SVLSNEEIRE TGGAESCHIR GNIVGWGVTE IQPHGGAQYV S.

Purity

Greater than 90% as determined by SDS-PAGE