

Active Recombinant Human PTX3 Protein, His-tagged

Cat. No. PTX3-02H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PTX3 Protein (Glu 18-Ser 381) with a C-terminal 6-His tag was expressed in Chinese Hamster Ovary cell line.
Species	Human
Source	CHO
ProteinLength	18-381
Description	This gene encodes a member of the pentraxin protein family. The expression of this protein is induced by inflammatory cytokines in response to inflammatory stimuli in several mesenchymal and epithelial cell types, particularly endothelial cells and mononuclear phagocytes. The protein promotes fibrocyte differentiation and is involved in regulating inflammation and complement activation. It also plays a role in angiogenesis and tissue remodeling. The protein serves as a biomarker for several inflammatory conditions.
Bio-activity	Measured by its binding ability in a functional ELISA. When Human C1q is immobilized at 5 µg/mL (100 µL/well), Recombinant Human Pentraxin 3/TSF-14 His-tag binds with an ED50 of 0.5-4 µg/mL.
Molecular Mass	Predicted Molecular Mass: 41 kDa SDS-PAGE: 38-55 kDa, under reducing conditions
N-terminal Sequence	Glu18

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Analysis	
Endotoxin	<0.10 EU/μg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose.
Reconstitution	Reconstitute at 500 μg/mL in PBS.
Shipping	The product is shipped at ambient temperature.

GENE INFORMATION

Gene Name	PTX3 pentraxin 3 [Homo sapiens (human)]
Official Symbol	PTX3
Synonyms	PTX3; pentraxin 3; TSG-14; TNFAIP5;
Gene ID	5806
mRNA Refseq	NM_002852
Protein Refseq	NP_002843

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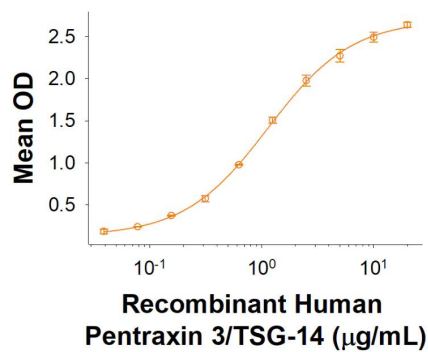
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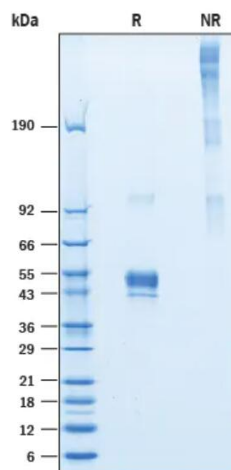
UniProt ID P26022

Binding Activity



When Human C1q is immobilized at 5 μg/mL (100 μL/well), Recombinant Human Pentraxin 3/TSG-14 His-tag binds with an ED50 of 0.5-4 μg/mL.

Recombinant Human Pentraxin 3/TSG-14 His-tag Protein SDS-PAGE



2

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μg/lane of Recombinant Human Pentraxin 3/TSG-14 His-tag was resolved with SDS-PAGE under reducing (R) and non-reducing (NR) conditions and visualized by Coomassie® Blue staining, showing bands at 38-55 kDa under reducing condition.

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