

Pentraxin 3/TSG-14 Protein, Human (HEK293, His)

Cat. No.:	HY-P73714
Synonyms:	Pentraxin-related protein PTX3; TSG-14; PTX3; TNFAIP5; TSG14
Species:	Human
Source:	HEK293
Accession:	NP_002843.2 (E18-S381, with natural variants A48D)
Gene ID:	5806
Molecular Weight:	44-50 kDa

PROPERTIES

AA Sequence	<pre> E N S D D Y D L M Y V N L D N E I D N G L H P T E D P T P C D C G Q E H S E W D K L F I M L E N S Q M R E R M L L Q A T D D V L R G E L Q R L R E E L G R L A E S L A R P C A P G A P A E A R L T S A L D E L L Q A T R D A G R R L A R M E G A E A Q R P E E A G R A L A A V L E E L R Q T R A D L H A V Q G W A A R S W L P A G C E T A I L F P M R S K K I F G S V H P V R P M R L E S F S A C I W V K A T D V L N K T I L F S Y G T K R N P Y E I Q L Y L S Y Q S I V F V V G G E E N K L V A E A M V S L G R W T H L C G T W N S E E G L T S L W V N G E L A A T T V E M A T G H I V P E G G I L Q I G Q E K N G C C V G G G F D E T L A F S G R L T G F N I W D S V L S N E E I R E T G G A E S C H I R G N I V G W G V T E I Q P H G G A Q Y V S </pre>
Biological Activity	Immobilized Anti-TSG-14 at 1 µg/mL (100 µL/well) can bind TSG-14. The ED ₅₀ for this effect is 0.04374 µg/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization or 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

The Pentraxin 3/TSG-14 Protein, a member of the pentraxin protein family, is encoded by this gene. Its expression is induced by inflammatory cytokines in response to inflammatory stimuli, particularly in various mesenchymal and epithelial cell types, including endothelial cells and mononuclear phagocytes. This protein plays a crucial role in promoting fibrocyte differentiation and is actively involved in regulating inflammation and complement activation. Additionally, it contributes to angiogenesis and tissue remodeling. Notably, Pentraxin 3/TSG-14 serves as a biomarker for several inflammatory conditions, reflecting its potential clinical significance. The gene exhibits biased expression, with heightened levels in the bone marrow (RPKM 32.2), appendix (RPKM 24.8), and six other tissues, highlighting its specific involvement in various physiological contexts across multiple organs.

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

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