DATA SHEET

P91990Hu02
Toll Like Receptor 5 (TLR5)
Organism: Homo sapiens (Human)
Instruction manual

FOR IN VITRO USE AND RESEARCH USE ONLY
NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES

4th Edition (Revised in August, 2012)

[DESCRIPTION]

Protein Names: Toll Like Receptor 5
Synonyms: TLR5, TIL3
Species: Human
Size: 100µg
Source: *Escherichia* coli-derived
Subcellular Location: Membrane; Single-pass type I membrane protein.

[PROPERTIES]

Residues: Tyr693~Ser858 (Accession # O60602), with two N-terminal Tags, His-tag and S-tag.
Grade & Purity: >95%, 25 kDa as determined by SDS-PAGE reducing conditions.
Formulation: Supplied as liquid form in Phosphate buffered saline(PBS), pH 7.4.
Endotoxin Level: <1.0 EU per 1µg (determined by the LAL method).
Applications: SDS-PAGE; WB; ELISA; IP.
(May be suitable for use in other assays to be determined by the end user.)
Predicted Molecular Mass: 25.28 kDa
Predicted isoelectric point: 6.6

[PREPARATION]

Reconstitute in sterile PBS, pH7.2-pH7.4.

[STORAGE AND STABILITY]

Storage: Avoid repeated freeze/thaw cycles.

Store at 2-8°C for one month.

Aliquot and store at -80°C for 12 months .

Stability Test: The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.

[SEQUENCES]

The target protein is fused with two N-terminal Tags, His-tag and S-tag, its sequence is listed below.

MHHHHHHSSG LVPRGSGMKE TAAAKFERQH MDSPDLGTDD DDKAMADIGS EF-YDAYLCFS SKDFTWVQNA LLKHLDTQYS DQNRFNLCFE ERDFVPGENR IANIQDAIWN SRKIVCLVSR HFLRDGWCLE AFSYAQGRCL SDLNSALIMV VVGSLSQYQL MKHQSIRGFV QKQQYLRWPE DFQDVGWFLH KLSQQILKKE KEKKKDNNIP LQTVATIS

[REFERENCES]

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2. Nakajima T., *et al.* (2008) Immunogenetics 60:727-735.
3. Wlasiuk G., *et al.* (2009) Mol. Biol. Evol. 26:937-949.
4. Gregory S.G., *et al.* (2006) Nature 441:315-321.

Gentaur Molecular Products
Voortstraat 49
1910 Kampenhout, BELGIUM

Tel 0032 16 58 90 45 | Fax 0032 16 50 90 45
www.gentaur-worldwide.com
info@gentaur.com