

Recombinant Human TNFRSF18 Protein, C-His-tagged

Cat. No. TNFRSF18-154H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human TNFRSF18 Protein with C-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	26-162 aa
Description	<p>TNFRSF18, also known as glucocorticoid-induced tumor necrosis factor-receptor (TNFR)-related protein (GITR) and activation-inducible TNFR family receptor, encodes a type 1 membrane protein of the TNF-receptor superfamily. Three alternatively spliced transcript variants encoding distinct isoforms have been reported. GITR is an immune cell co-stimulatory receptor expressed constitutively at high levels on CD4+CD25+ T regulatory cells (Tregs), at low levels on naïve and memory T cells, and is induced upon T cell activation. Studies show GITR can also be induced on NK cells, macrophages, and DCs. Although GITR does not have intrinsic enzymatic activity, TNFSF18 (also known as GITRL) expressed on antigen presenting cells binds to GITR, resulting in recruitment of TNFR-associated factor family members and activation of the NF-κB pathway in T cells. GITR ligation has been shown to play a role in CD8+ T cell activation, cytotoxicity, and memory T cell survival. In the thymus, GITR is thought to play a key role in dominant immunological self-tolerance through thymic Treg differentiation and expansion. Of note, GITR ligation inhibits Treg suppressive function and promotes effector T cell resistance to Treg suppression. Due to the combined effects on both Treg suppression and effector cell activation,</p>

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GITR represents a unique opportunity for immunotherapeutic intervention in cancer.

Molecular Mass

~15 kDa

AA Sequence

QRPTGGPGCGPGRLLLGTGTDARCCRVHTTRCCRDYPGEECCSEWDCMCVQPEF
HCGDPCCTTCRHHPGPPGQGVQSQKFSFGFQCIDCASGTFSGGHEGHCKPWTD
CTQFGFLTVPGNKTHNAVCPGSPPAEP

Purity

Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).

Notes

For research use only, not for use in diagnostic procedure.

Storage

Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.

Concentration

≥0.5 mg/mL

Storage Buffer

PBS, 4M Urea, pH7.4

GENE INFORMATION

Gene Name

TNFRSF18 tumor necrosis factor receptor superfamily, member 18 [Homo sapiens (human)]

Official Symbol

TNFRSF18

Synonyms

TNFRSF18; tumor necrosis factor receptor superfamily, member 18; tumor necrosis factor receptor superfamily member 18; AITR; CD357; GITR; activation-inducible TNFR family receptor; glucocorticoid-induced TNFR-related protein; TNF receptor superfamily activation-inducible protein; GITR-D;

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Gene ID 8784

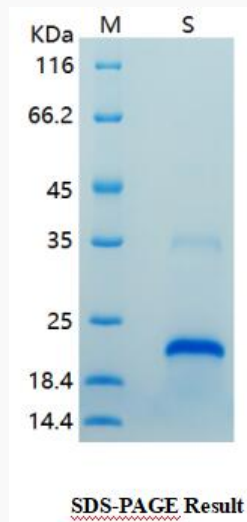
mRNA Refseq NM_004195

Protein Refseq NP_004186

MIM 603905

UniProt ID Q9Y5U5

SDS-PAGE



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