

## Recombinant Human TNFRSF19, Fc Chimera

**Cat. No.** TNFRSF19-2435H    **Lot. No.** (See product label)

### SPECIFICATION

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>  | Recombinant cysteine-rich domain of human Troy (TAJ) (aa 1-168) produced in <i>HEK 293 cells</i> fused to the Fc portion of human IgG1. 48kDa (under reducing conditions).                                                                                                                                                                                                                                                                               |
| <b>Species</b>           | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>            | Human Cells                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Protein Length</b>    | 1-168 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>       | Troy, or TAJ, is a member of the tumor necrosis factor receptor (TNFR) family. Troy plays a role in axonal regeneration by forming a functional receptor complex with Nog-66 receptor 1 and LINGO-1. This receptor complex binds myelin inhibitors (Nogo-A, myelin.associated glycoprotein (MAG), oligodendrocyte myelin glycoprotein (OMgp) and signals myelin inhibition by activating RhoA. Troy also interacts with TRAF proteins and activates JNK. |
| <b>Source/Host</b>       | HEK 293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Concentration</b>     | 1mg/ml after reconstitution.                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Purity</b>            | ≥90% (SDS-PAGE).                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Endotoxin Content</b> | <0.1EU/g purified protein (LAL test; Bio Whittaker).                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Reconstitution</b>    | Reconstitute in 50μl sterile water. Further dilutions should be made with medium                                                                                                                                                                                                                                                                                                                                                                         |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                          |                                                                                                                                                                    |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          | containing 5% fetal calf serum.                                                                                                                                    |
| <b>Formulation</b>       | Lyophilized. Contains PBS.                                                                                                                                         |
| <b>Long Term Storage</b> | -20°C.                                                                                                                                                             |
| <b>Use/Stability</b>     | Stable for at least 6 months after receipt when stored at -20°C. Once reconstituted, it is recommended to prepare appropriate aliquots and to store them at -20°C. |
| <b>Handling</b>          | Avoid freeze/thaw cycles.                                                                                                                                          |

## GENE INFORMATION

|                            |                                                                                                                                                                                                                            |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | TNFRSF19 tumor necrosis factor receptor superfamily, member 19 [ Homo sapiens ]                                                                                                                                            |
| <b>Synonyms</b>            | tumor necrosis factor receptor superfamily, member 19; TAJ; TROY; TRADE; TAJ-alpha; TNFRSF19; tumor necrosis factor receptor superfamily member 19; toxicity and JNK inducer; Toxicity and JNK inducer; OTTHUMP00000018114 |
| <b>Gene ID</b>             | 55504                                                                                                                                                                                                                      |
| <b>mRNA Refseq</b>         | NM_018647                                                                                                                                                                                                                  |
| <b>Protein Refseq</b>      | NP_061117                                                                                                                                                                                                                  |
| <b>MIM</b>                 | 606122                                                                                                                                                                                                                     |
| <b>UniProt ID</b>          | Q9NS68                                                                                                                                                                                                                     |
| <b>Chromosome Location</b> | 13q12.11-q12.3                                                                                                                                                                                                             |

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|-----------------|-----------------------------------------------------------------------------|
| <b>Pathway</b>  | Cytokine-cytokine receptor interaction                                      |
| <b>Function</b> | protein binding; receptor activity; tumor necrosis factor receptor activity |