

## Recombinant Human TRIB3 Protein (R2-G358), Tag Free

Cat. No. TRIB3-0564H    Lot. No. (See product label)

### SPECIFICATION

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| Product Overview | Recombinant Human GG-TRIB3(R2-G358 end) Protein was expressed in Insect cell.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Species          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Source           | Insect Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| ProteinLength    | R2-G358                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Description      | Inactive protein kinase which acts as a regulator of the integrated stress response (ISR), a process for adaptation to various stress. Inhibits the transcriptional activity of DDIT3/CHOP and is involved in DDIT3/CHOP-dependent cell death during ER stress. May play a role in programmed neuronal cell death but does not appear to affect non-neuronal cells. Acts as a negative feedback regulator of the ATF4-dependent transcription during the ISR: while TRIB3 expression is promoted by ATF4, TRIB3 protein interacts with ATF4 and inhibits ATF4 transcription activity. Disrupts insulin signaling by binding directly to Akt kinases and blocking their activation. May bind directly to and mask the 'Thr-308' phosphorylation site in AKT1. Interacts with the NF-kappa-B transactivator p65 RELA and inhibits its phosphorylation and thus its transcriptional activation activity. Interacts with MAPK kinases and regulates activation of MAP kinases. Can inhibit APOBEC3A editing of nuclear DNA. |
| Form             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Endotoxin        | < 0.01 EU per µg of the protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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|                       |                                                                                                                                                                     |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | 90%                                                                                                                                                                 |
| <b>Stability</b>      | Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.                                                                           |
| <b>Storage</b>        | Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| <b>Storage Buffer</b> | Supplied as sterile 50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol                                                                                               |
| <b>Shipping</b>       | It is shipped out with blue ice.                                                                                                                                    |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                 |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | TRIB3 tribbles homolog 3 (Drosophila) [ Homo sapiens (human) ]                                                                                                                                                                                                                                                                                  |
| <b>Official Symbol</b> | TRIB3                                                                                                                                                                                                                                                                                                                                           |
| <b>Synonyms</b>        | TRIB3; tribbles homolog 3 (Drosophila); C20orf97, chromosome 20 open reading frame 97; tribbles homolog 3; dJ1103G7.3; TRB3; TRB-3; p65-interacting inhibitor of NF-kappaB; p65-interacting inhibitor of NF-kappa-B; neuronal cell death inducible putative kinase; neuronal cell death-inducible putative kinase; NIPK; SINK; SKIP3; C20orf97; |
| <b>Gene ID</b>         | 57761                                                                                                                                                                                                                                                                                                                                           |
| <b>mRNA Refseq</b>     | NM_021158                                                                                                                                                                                                                                                                                                                                       |
| <b>Protein Refseq</b>  | NP_066981                                                                                                                                                                                                                                                                                                                                       |
| <b>MIM</b>             | 607898                                                                                                                                                                                                                                                                                                                                          |

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UniProt ID

Q96RU7

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