

Recombinant Human TNKS Protein (Q1091-Q1325), His tagged

Cat. No. TNKS-0836H Lot. No. (See product label)

SPECIFICATION

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| Product Overview | Recombinant Human 6His-TEV-GG-TNKS1(Q1091-Q1325) Protein was expressed in E. coli. |
| Species | Human |
| Source | E.coli |
| ProteinLength | Q1091-Q1325 |
| Description | <p>Poly-ADP-ribosyltransferase involved in various processes such as Wnt signaling pathway, telomere length and vesicle trafficking. Acts as an activator of the Wnt signaling pathway by mediating poly-ADP-ribosylation (PARsylation) of AXIN1 and AXIN2, 2 key components of the beta-catenin destruction complex: poly-ADP-ribosylated target proteins are recognized by RNF146, which mediates their ubiquitination and subsequent degradation. Also mediates PARsylation of BLZF1 and CASC3, followed by recruitment of RNF146 and subsequent ubiquitination. Mediates PARsylation of TERF1, thereby contributing to the regulation of telomere length. Involved in centrosome maturation during prometaphase by mediating PARsylation of HEPACAM2/MIKI. May also regulate vesicle trafficking and modulate the subcellular distribution of SLC2A4/GLUT4-vesicles. May be involved in spindle pole assembly through PARsylation of NUMA1. Stimulates 26S proteasome activity.</p> |
| Form | Liquid |
| Endotoxin | < 0.01 EU per |

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

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| | µg of the protein |
| Purity | 90% |
| Stability | Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. |
| Storage | 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. |
| Storage Buffer | Supplied as sterile 50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol |
| Shipping | It is shipped out with blue ice. |

GENE INFORMATION

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| Gene Name | TNKS tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase [Homo sapiens (human)] |
| Official Symbol | TNKS |
| Synonyms | TNKS; tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase; tankyrase-1; PARP 5a; PARP5A; pART5; TIN1; TINF1; TNKS1; TANK1; TNKS-1; tankyrase I; poly [ADP-ribose] polymerase 5A; TRF1-interacting ankyrin-related ADP-ribose polymerase; PARPL; PARP-5a; |
| Gene ID | 8658 |
| mRNA Refseq | NM_003747 |
| Protein Refseq | NP_003738 |

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| MIM | 603303 |
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| UniProt ID | O95271 |
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