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

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

SPECIFICATION

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	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.
Form	Liquid
Endotoxin	< 0.01 EU per

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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

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
UniProt ID	O95271

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