

## Active Recombinant Human TPR, GST-tagged

Cat. No. TPR-95H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human fusion protein TPR (1-191)-TRKA (399-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>ProteinLength</b>	1-191;399-end a.a.
<b>Description</b>	TRKA is a member of the neurotrophic tyrosine kinase receptor (NTRK) family which is a membrane-bound receptor that, upon neurotrophin binding, phosphorylates itself and members of the MAPK pathway. TRKA has a crucial role in the development and function of the nociceptive reception system as well as establishment of thermoregulation via sweating in humans. As one of the thyroid TRK oncogenes, TRK-T1 is created by an intrachromosomal rearrangement that juxtaposes the 5' end of the TPR gene to the TRK tyrosine kinase domain and shows frequent activation of the TRK in human papillary thyroid carcinoma.
<b>Form</b>	50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
<b>Bio-activity</b>	16 nmol/min/mg
<b>Molecular Mass</b>	~96 kDa

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<b>Purity</b>	>70% by densitometry
<b>Applications</b>	Kinase Assay
<b>Storage</b>	Store product at –70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
<b>Concentration</b>	0.05 ug/ul

## GENE INFORMATION

<b>Gene Name</b>	TPR translocated promoter region, nuclear basket protein [ Homo sapiens ]
<b>Official Symbol</b>	TPR
<b>Synonyms</b>	TPR; translocated promoter region, nuclear basket protein; translocated promoter region (to activated MET oncogene); nucleoprotein TPR; tumor potentiating region; nuclear pore complex-associated protein TPR;
<b>Gene ID</b>	7175
<b>mRNA Refseq</b>	NM_003292
<b>Protein Refseq</b>	NP_003283
<b>MIM</b>	189940
<b>UniProt ID</b>	P12270
<b>Chromosome Location</b>	1q25

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**Pathway**

Antiviral mechanism by IFN-stimulated genes, organism-specific biosystem; Cytokine Signaling in Immune system, organism-specific biosystem; Disease, organism-specific biosystem; Export of Viral Ribonucleoproteins from Nucleus, organism-specific biosystem; Gene Expression, organism-specific biosystem; Glucose transport, organism-specific biosystem; HIV Infection, organism-specific biosystem;

**Function**

ATP binding; nucleotide binding; protein binding; serine-tRNA ligase activity;

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