

Active Recombinant Human TPR, GST-tagged

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

SPECIFICATION

Product Overview	Recombinant human fusion protein TPR (1-191)-TRKA (399-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	1-191;399-end a.a.
Description	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.
Form	50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
Bio-activity	16 nmol/min/mg
Molecular Mass	~96 kDa

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Purity	>70% by densitometry
Applications	Kinase Assay
Storage	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.
Concentration	0.05 ug/ul

GENE INFORMATION

Gene Name	TPR translocated promoter region, nuclear basket protein [Homo sapiens]
Official Symbol	TPR
Synonyms	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;
Gene ID	7175
mRNA Refseq	NM_003292
Protein Refseq	NP_003283
MIM	189940
UniProt ID	P12270
Chromosome Location	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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