Recombinant Human Ret Proto-oncogene, GST-tagged, Active

Cat. No. RET-417H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human RET (658-end) was expressed by*baculovirus*in*Sf9 insect cells*using an N-terminal GST tag. MW=74kDa.
Species	Human
Source	Sf9 Cells
ProteinLength	658-end a.a.
Description	RET gene codes for a transmembrane tyrosine kinase which is a subunit of a multimeric complex that acts as a receptor for four structurally related molecules: GDNF, neurturin, artemin and persephin. Germline mutations of RET cause a dominantly inherited dysgenesis of the enteric nervous system known as Hirschsprung"s disease. RET is constitutively activated by point mutations in hereditary medullary thyroid carcinomas (MTCs). Several single nucleotide polymorphisms of the RET gene have been described. Multiple endocrine neoplasia type 2A (MEN 2A) have been reported to be associated with two mutations of the protooncogene RET.
Sequence	658-end.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at –70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable

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	performance, avoid repeated handling and multiple freeze/thaw cycles.

GENE INFORMATION

Gene Name	RET ret proto-oncogene [Homo sapiens]
Synonyms	RET1; ret proto-oncogene; RET transforming sequence; cadherin family member 12; hydroxyaryl-protein kinase; receptor tyrosine kinase; ret proto-oncogene (multiple endocrine neoplasia and medullary thyroid carcinoma 1, Hirschsprung disease); PTC; MTC1; HSCR1; MEN2A; MEN2B; RET51; CDHF12; RET-ELE1; EC 2.7.10.1
Gene ID	5979
mRNA Refseq	NM_020630
Protein Refseq	NP_065681
MIM	164761
UniProt ID	P07949
Chromosome Location	10q11.2
Pathway	Endocytosis; Pathways in cancer; Thyroid cancer
Function	ATP binding; calcium ion binding; nucleotide binding; receptor activity; receptor activity; transferase activity; transmembrane receptor protein tyrosine kinase activity

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