Recombinant Human RET (R749T), GST-tagged

Cat. No. RET-34H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human RET (R749T) (658-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	658-end a.a.
Description	RET or ret proto-oncogene is a member of the cadherin superfamily that encodes one of the receptor tyrosine kinases, which are cell-surface molecules that transduce signals for cell growth and differentiation. RET can undergo oncogenic activation in vivo and in vitro by cytogenetic rearrangement. Mutations in the RET gene are associated with the disorders multiple endocrine neoplasia, type IIA, multiple endocrine neoplasia, type IIB, Hirschsprung disease, and medullary thyroid carcinoma. RET signaling pathway, by regulating the development of both the nervous and lymphoid system in the gut, plays a key role in the molecular mechanisms that orchestrate intestine organogenesis.
Form	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~74 kDa
Applications	Kinase Assay

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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.

GENE INFORMATION

Gene Name	RET ret proto-oncogene [Homo sapiens]
Official Symbol	RET
Synonyms	RET; ret proto-oncogene; Hirschsprung disease 1 , HSCR1, MEN2A, MEN2B, MTC1, multiple endocrine neoplasia and medullary thyroid carcinoma 1; proto-oncogene tyrosine-protein kinase receptor Ret; cadherin related family member 16; CDHF12; CDHR16; PTC; RET51; proto-oncogene c-Ret; receptor tyrosine kinase; RET transforming sequence; cadherin family member 12; hydroxyaryl-protein kinase; cadherin-related family member 16; ret proto-oncogene (multiple endocrine neoplasia and medullary thyroid carcinoma 1, Hirschsprung disease); MTC1; HSCR1; MEN2A; MEN2B; RET-ELE1;
Gene ID	5979
mRNA Refseq	NM_020630
Protein Refseq	NP_065681
UniProt ID	P07949
Chromosome Location	10q11.2
Pathway	Endocytosis, organism-specific biosystem; Endocytosis, conserved biosystem;

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	Pathways in cancer, organism-specific biosystem; SIDS Susceptibility Pathways, organism-specific biosystem; Signaling events regulated by Ret tyrosine kinase, organism-specific biosystem; Thyroid cancer, organism-specific biosystem; Thyroid cancer, conserved biosystem;
Function	ATP binding; calcium ion binding; nucleotide binding; protein binding; protein tyrosine kinase activity; receptor activity; transmembrane receptor protein tyrosine kinase activity;

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