

## Recombinant Human Ret Proto-Oncogene, GST-tagged

Cat. No. RET-5475H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant humanRET catalytic domain (amino acids 658-1114) with GST tag, activated in vitrovia auto-phosphorylation.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>ProteinLength</b>	658-1114 a.a.
<b>Description</b>	The RETproto-oncogene encodes a receptor tyrosine kinase for members of the glialcell line-derived neurotrophic factor family of extracellular signallingmolecules. RET loss of function mutations are associated with the developmentof Hirschsprung" s disease, while gain of function mutations are associatedwith the development of various types of human cancer.
<b>Form</b>	Liquid in 50 mMTris, pH 7.5 + 150 mM NaCl + 0.5 mM EDTA + 0.02% Triton X-100 + 2 mM DTT +50% glycerol.
<b>Purity</b>	≥ 90% as determinedby SDS-PAGE analysis
<b>MolecularWeight</b>	79.0 kDa
<b>Specific Activity</b>	2382 nmole ofphosphate transferred to Abl1 peptide substrate (EAIYAAPFAKKK) per minute permg of total protein at 30°C. Activity determined at a final proteinconcentration of 1.67 µg/ml.

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<b>Concentration</b>	0.31 mg/ml
<b>Storage</b>	Stable for 6 months in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.
<b>Official Symbol</b>	RET
<b>Pathways</b>	Endocytosis; Pathways in cancer; SIDS Susceptibility Pathways; Signaling events regulated by Ret tyrosine kinase; Thyroid cancer

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">RET</a> <a href="#">ret proto-oncogene [ Homosapiens ]</a>
<b>Synonyms</b>	RET; ret proto-oncogene; PTC; MTC1; HSCR1; MEN2A; MEN2B; RET51; CDHF12; CDHR16; RET-ELE1; proto-oncogene tyrosine-protein kinase receptor Ret; OTTHUMP00000019479; OTTHUMP00000216967; 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); EC 2.7.10.1; Proto-oncogene tyrosine-protein kinase receptor Ret; Cadherin family member 12; Proto-oncogene c-Ret
<b>Gene ID</b>	<a href="#">5979</a>
<b>mRNA Refseq</b>	<a href="#">NM_020630</a>
<b>Protein Refseq</b>	<a href="#">NP_065681</a>
<b>MIM</b>	<a href="#">164761</a>
<b>UniProt ID</b>	P07949

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**Chromosome Location** 10q11.2

**Function** ATP binding; calciumion binding; nucleotide binding; protein binding; protein tyrosine kinaseactivity; receptor activity; transmembrane receptor protein tyrosine kinaseactivity

**Crystallographicstructure of the dimeric tyrosine kinase domain of the human proto-oncogeneRet (rainbow colored cartoon, N-terminus = blue, C-terminus = red).**



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