

Active Recombinant Human Ret Proto-Oncogene, GST-His-tagged

Cat. No. RET-5476H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanRET contains amino acids H658-D1110 (as in GenBank entry NM_000323) and isN-terminally fused to GST-His6-Thrombin cleavage site.
Species	Human
Source	Sf9 Cells
ProteinLength	658-1110 a.a.
Description	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.
Form	Liquid in 50 mMTris-HCl, pH 8.0 + 100 mM NaCl + 5 mM DTT + 15 mM reduced glutathione + 20%glycerol.
MolecularWeight	84.322 kDa
Specific Activity	24 pmol/μg x min.Assay conditions: 60 mM HEPES-NaOH, pH 7.5 + 3 mM MgCl ₂ + 3 mM MnCl ₂ + 3 μM Na-orthovanadate + 1.2 mM DTT + 2.5 μg / 50 μl PEG20.000+ ATP (variable) + 2 μg / 50 μl Poly(Glu:Tyr)4:1 substrate + 200ng / 50 μl recombinant RET.

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Concentration	0.131 mg/ml
Storage	Store in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.
Official Symbol	RET
Pathways	Endocytosis; Pathways in cancer; SIDS Susceptibility Pathways; Signaling events regulated by Ret tyrosine kinase; Thyroid cancer

GENE INFORMATION

Gene Name	RET ret proto-oncogene [Homosapiens]
Synonyms	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
Gene ID	5979
mRNA Refseq	NM_020630
Protein Refseq	NP_065681
MIM	164761
UniProt ID	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

Crystallographic structure of the dimeric tyrosine kinase domain of the human proto-oncogene Ret (rainbow colored cartoon, N-terminus = blue, C-terminus = red).



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