

Recombinant Human RET Protein, His-tagged

Cat. No. RET-716H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human RET protein was expressed from CHO-based cell line with His-tag and purified by QMCF Technology.
Species	Human
Source	CHO
ProteinLength	29-635 aa
Description	Receptor tyrosine-protein kinase involved in numerous cellular mechanisms including cell proliferation, neuronal navigation, cell migration, and cell differentiation upon binding with glial cell derived neurotrophic factor family ligands. Phosphorylates PTK2/FAK1. Regulates both cell death/survival balance and positional information. Required for the molecular mechanisms orchestration during intestine organogenesis; involved in the development of enteric nervous system and renal organogenesis during embryonic life, and promotes the formation of Peyer's patch-like structures, a major component of the gut-associated lymphoid tissue. Modulates cell adhesion via its cleavage by caspase in sympathetic neurons and mediates cell migration in an integrin-dependent manner. Involved in the development of the neural crest. Active in the absence of ligand, triggering apoptosis through a mechanism that requires receptor intracellular caspase cleavage. Acts as a dependence receptor; in the presence of the ligand GDNF in somatotrophs (within pituitary), promotes survival and down regulates growth hormone (GH) production, but triggers apoptosis in absence of GDNF. Regulates nociceptor survival and size. Triggers the differentiation of

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rapidly adapting (RA) mechanoreceptors. Mediator of several diseases such as neuroendocrine cancers; these diseases are characterized by aberrant integrins-regulated cell migration.

Form	PBS pH 7.4.
Molecular Mass	Approximately 68.6 kDa, a single non-glycosylated polypeptide chain containing 613 amino acids including C-terminal hexahistidine tag.
Storage	Store at -70 centigrade upon receipt. Recommended to aliquot into smaller quantities. Avoid repeated freeze-thaw cycles.
Concentration	0.23 mg/ml

GENE INFORMATION

Gene Name	ret proto-oncogene
Official Symbol	RET
Synonyms	Cadherin family member 12, Proto-oncogene c-Ret
Gene ID	5979
mRNA Refseq	NM_020630.4
Protein Refseq	NP_065681.1
UniProt ID	P07949

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