Ret Proto-Oncogene (RET) Recombinant Protein

PRODUCT OVERVIEW

Product Name	Ret Proto-Oncogene, Recombinant Protein
Full Product Name	Recombinant Ret Proto-Oncogene (RET)
Product Gene Name	RET recombinant protein
Product Synonym Names	CDHR16; CRet; PTC; CDHF12; HSCR1; MEN2A; MEN2B; MTC1; RET-ELE1; RET51; C-Ret; Multiple Endocrine Neoplasia And Medullary Thyroid Carcinoma 1; Cadherin-Related 16
Host	E Coli
Form/Format	Freeze-dried powder PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Purity/Purification	>90%
Preparation and Storage	Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Avoid repeated freeze/thaw cycles. Stability: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Molecular Weight	Predicted Molecular Mass: 26.3kDa Accurate Molecular Mass: 26kDa
Sequence Positions	Thr78~Phe272
OMIM	114500
3D Structure	ModBase 3D Structure for P07949
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Source	Prokaryotic expression
Species	Human
Tag	N-terminal His Tag
Subcellular Location	Secreted
Isoelectric Point	6.1
Reconstitution	Reconstitute in PBS or others.
Product Categories/Family for RET recombinant protein	CD & Adhesion molecule; Tumor immunity; Hormone metabolism
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for RET recombinant protein	Positive Control, Immunogen, SDS-PAGE, Western Blot (WB)
Related Product Information for RET recombinant protein	MBS2122801 is a recombinant protein targeting RET. Also known as Recombinant Ret Proto-Oncogene (RET). Host: E Coli.
Other Notes	Small volumes of RET recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RET. It may not necessarily be applicable to this product.

NCBI GI #	10862701
NCBI GeneID	5979
NCBI Accession #	NP_065681.1
UniProt Primary Accession #	P07949
UniProt Related Accession #	P07949
GenBank Nucleotide #	NP_065681.1
NCBI Official Full Name	proto-oncogene tyrosine-protein kinase receptor Ret isoform c
NCBI Official Synonym Full Names	ret proto-oncogene
NCBI Official Symbol	RET
NCBI Official Synonym Symbols	PTC; MTC1; HSCR1; MEN2A; MEN2B; CDHF12; CDHR16; RET-ELE1
UniProt Protein Name	Proto-oncogene tyrosine-protein kinase receptor Ret
UniProt Synonym Protein Names	Cadherin family member 12; Proto-oncogene c-Ret
Protein Family	Proto-oncogene tyrosine-protein kinase receptor
UniProt Gene Name	RET
UniProt Synonym Gene Names	CDHF12; CDHR16; PTC; RET51
UniProt Entry Name	RET_HUMAN
NCBI Protein Information	proto-oncogene tyrosine-protein kinase receptor Ret
NCBI Summary for RET	This gene encodes a transmembrane receptor and member of the tyrosine protein kinase family of proteins. Binding of ligands such as GDNF (glial cell-line derived neurotrophic factor) and other related proteins to the encoded receptor stimulates receptor dimerization and activation of downstream signaling pathways that play a role in cell differentiation, growth, migration and survival. The encoded receptor is important in development of the nervous system, and the development of organs and tissues derived from the neural crest. This proto-oncogene can undergo oncogenic activation through both cytogenetic rearrangement and activating point mutations. Mutations in this gene are associated with Hirschsprung disease and central hypoventilation syndrome and have been identified in patients with renal agenesis. [provided by RefSeq, Sep 2017]

UniProt Comments for RET	Ret: a proto-oncogenic receptor tyrosine kinase. Receptor for glial cell line-derived neurotropic factor (GDNF) and its congeners neurturin, persephin and artemin. Part of a multicompetent receptor complex with other membrane-bound ligand-binding GDNF family receptors (aGFRs). Required for development of the kidney and neural crest-derived cell types. Three alternatively spliced isoforms have been described. Protein type: Membrane protein, integral; Oncoprotein; Protein kinase, tyrosine (receptor); EC 2.7.10.1; Protein kinase, TK; Kinase, protein; TK group; Ret family Chromosomal Location of Human Ortholog: 10q11.2 Cellular Component: intracellular membrane-bound organelle; integral to plasma membrane; cytoplasm; plasma membrane; endosome membrane; receptor complex; lipid raft Molecular Function: protein binding; protein-tyrosine kinase activity; receptor activity; transmembrane receptor protein tyrosine kinase activity; calcium ion binding; ATP binding Biological Process: response to drug; regulation of cell adhesion; caspase activation; positive regulation of neuron maturation; posterior midgut development; peptidyl-tyrosine phosphorylation; positive regulation of cell size; positive regulation of transcription, DNA-dependent; membrane protein proteolysis; MAPKKK cascade; positive regulation of cell adhesion mediated by integrin; response to pain; regulation of axonogenesis; signal transduction; neuron maturation; protein amino acid phosphorylation; enteric nervous system development; retina development in camera-type eye; ureteric bud development; embryonic epithelial tube formation; neuron adhesion; homophilic cell adhesion; neural crest cell migration; transmembrane receptor protein tyrosine kinase signaling pathway; positive regulation of cell migration Disease: Multiple Endocrine Neoplasia, Type Iib; Multiple Endocrine Neoplasia, Type Iia; Thyroid Carcinoma, Papillary; Hirschsprung Disease, Susceptibility To, 1; Thyroid Carcinoma, Familial Medullary
Research Articles on RET	**1.** RET mutation was related to cervical lymph node metastasis in patients with medullary thyroid carcinoma, especially the mutation in Exon 11&13
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