

KIF5B-RET (V804L) Recombinant Protein | KIF5B-RET recombinant protein

KIF5B-RET (V804L), Active

CATALOG # AAA73913	HOST Sf9 insect cells	APPLICATIONS Kinase Assay
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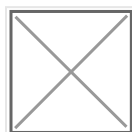
PRODUCT SYNONYMS

KIF5B-RET (V804L); Active; KIF5B: KINH; UKHC; KNS RET: CDHF12; RET51; PTC; RET-ELE1; RET/PTC2; KIF5B-RET recombinant protein

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Applicable Applications for KIF5B-RET recombinant protein	Kinase Assay
Tag	GST
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. 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.

IMAGES



SDS-PAGE

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



Activity

Specific Activity: Sample Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for KIF5B-RET recombinant protein	Recombinant human fusion KIF5B (1-575 a.a., exons1-15) -RET (V804L)(713 a.a. -end, exons 14-21), was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number of KIF5B is NM_004521 and RET is NM_020630. 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 (1). 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 (2). The KIF5B-RET fusion was reported to be one of the driver mutations of lung adenocarcinomas and that Vandetanib inhibits the anchorage-independent growth activity induced by the fusion.
Product Categories/Family for KIF5B-RET recombinant protein	Mutant Kinases; Cancer

References

1. Grieco, M. et.al: PTC is a novel rearranged form of the ret proto-oncogene and is frequently detected in vivo in human thyroid papillary carcinomas. Cell 60: 557-563, 1990.
2. Veiga-Fernandes, H. et.al: Tyrosine kinase receptors RET is a key regulator of Peyer's patch organogenesis. Nature 446: 547-551, 2007.
3. Kohno T, et al. : KIF5B-RET fusions in lung adenocarcinoma. Nat Med. 2012 Feb 12;18(3):375-7.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #

[NM_004521](#)

Molecular Weight

132kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/kif5b-ret-v804l-recombinant-protein-sf9-insect-cells-kinase-assay/73913>