Proteins



Product Data Sheet

RET Protein, Human (HEK293, His)

Cat. No.: HY-P73679

Synonyms: Proto-oncogene tyrosine-protein kinase receptor Ret; RET; CDHF12; CDHR16

Species: Human Source: HEK293

Accession: P07949 (L29-R635)

Gene ID: 5979

Molecular Weight: 110-120 kDa

PROPERTIES

TROTERTIES				
AA Sequence				
	LYFSRDAYWE	KLYVDQAAGT	PLLYVHALRD	ΑPΕ
	GQHLYGTYRT	RLHENNWICI	QEDTGLLYLN	RSL
	LSVRNRGFPL	LTVYLKVFLS	PTSLREGECQ	WPG
	FFNTSFPACS	SLKPRELCFP	ETRPSFRIRE	NRPP
	RLLPVQFLCP	NISVAYRLLE	GEGLPFRCAP	DSLE
	LDREQREKYE	LVAVCTVHAG	AREEVVMVPF	PVTV
	APTFPAGVDT	ASAVVEFKRK	EDTVVATLRV	FDAD
	ELVRRYTSTL	LPGDTWAQQT	FRVEHWPNET	SVQA
	ATVHDYRLVL	NRNLSISENR	TMQLAVLVND	SDFQ
	LLLHFNVSVL	PVSLHLPSTY	SLSVSRRARR	FAQI
	NCQAFSGINV	QYKLHSSGAN	CSTLGVVTSA	EDTS
	DTKALRRPKC	AELHYMVVAT	DQQTSRQAQA	QLLV
	VAEEAGCPLS	CAVSKRRLEC	EECGGLGSPT	GRCEV
	KGITRNFSTC	SPSTKTCPDG	HCDVVETQDI	NICPO
	S I V G G H E P G E L C D E L C R	PRGIKAGYGT	CNCFPEEEKC	FCEPE
logical Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.			
pearance	Lyophilized powder.			
ormulation	Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.0 added as protectants before lyophilization.			
Endotoxin Level	<1 EU/μg, determined by LAL method.			
econsititution	It is not recommended to reconstitute to a concentration less than 100 $\mu g/mL$ in ddH_2O .			
torage & Stability	Stored at -20° C for 2 years. After reconstitution, it is stable at 4° C for 1 week or -20° C for longer (with recommended to freeze aliquots at -20° C or -80° C for extended storage.			

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Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

The RET protein, a receptor tyrosine-protein kinase, plays a crucial role in diverse cellular processes such as cell proliferation, neuronal navigation, migration, and differentiation upon binding with glial cell-derived neurotrophic factor family ligands. It phosphorylates PTK2/FAK1 and regulates the delicate balance between cell death and survival, as well as positional information. Essential for the molecular coordination during intestine organogenesis, RET is involved in the development of the enteric nervous system, renal organogenesis, and promotes the formation of Peyer's patch-like structures in the gut-associated lymphoid tissue. Furthermore, RET modulates cell adhesion, mediated by caspase cleavage in sympathetic neurons, and facilitates cell migration in an integrin-dependent manner. Operating as a dependence receptor, it triggers apoptosis in the absence of the ligand GDNF in somatotrophs but promotes survival and downregulates growth hormone production in its presence. RET is a key mediator in various diseases, particularly neuroendocrine cancers characterized by aberrant integrins-regulated cell migration. Additionally, it mediates GDF15-induced cell signaling in the brainstem through interaction with GFRAL, resulting in the inhibition of food intake and activation of MAPK- and AKT-signaling pathways. Notably, isoform 1 in complex with GFRAL induces higher activation of the MAPK-signaling pathway compared to isoform 2 in the same complex.

Caution: Product has not been fully validated for medical applications. For research use only.

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