
Product Data Sheet

Product Name: FTL1 Human, HEK
 Cat. No.: GP26189
 Batch No.: 1

Product Data

Purity	>98%	Source	HEK293
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	FLT-1, FLT1, Tyrosine-protein kinase receptor FLT, Flt-1, Tyrosine-protein kinase FRT, Fms-like tyrosine kinase 1, VEGFR-1.		
Amino Acid Sequence	ASSKLDPEL SLKGTQHIMQ AGQTLHLQCR GEAAHKWSLP EMVSKESERL SITKSACGRN GKQFCSTLTL NTAQANHTGF YSCKYLAVPT SKKKETESAI YIFISDTGRP FVEMYSEIPE IIMTEGREL VIPCRVTSPN ITVTLKKFPL DTLIPDGKRI IWDSRKGFI SNATYKEIGL LTCEATVNGH LYKTNYLTHR QTNTIIDVQI STPRPVKLLR GHTLVLNCTA TTPLNTRVQM TWSYPDEKNK RASVRRRIDQ SNSHANIFY S VLTIDKMQNK DKGLYTCRVR SGPSFKSVNT SVHIYDKAFI TVKHRKQVL ETVAGKRSYR LSMKVKAFFS PEVWVWKDGL PATEKSARYL TRGYSLIKD VTEEDAGNYT ILLSIKQSNV FKNLTATLIV NVKPQIYEKA VSSFPDPALY PLGSRQILTC TAYGIPQPTI KFWWHPCNHN HSEARCDFCS NNEESFILDA DSNMGNRIES ITQRMALIEG KNKMASTLVV ADSRISGIYI CIASNKVGTV GRNISFYITD VPNGFHVNLE KMPTEGEDLK LSCTVNKFLY RDVTWILLRT VNNRTMHYSI SKQKMAITKE HSITLNLTIM NVSLQDSGTY ACRARNVYTG EEILQKKEIT IRGEHCNKKA VFSRISKFKS TRNDCTTQSN VKHKLHHHHH HHHHH		
Formulation	FTL1 protein solution is filtered in in PBS pH 7.4 and 20% (w/v) glycerol.		

Introduction

Endothelial cells express 3 different vascular endothelial growth factor (VEGF) receptors, belonging to the family of receptor tyrosine kinases (RTKs). They are named VEGFR-1 (Flt-1), VEGFR-2 (KDR/Flk-1), VEGFR-3 (Flt-4). Their expression is almost exclusively restricted to endothelial cells, but VEGFR-1 can also be found on monocytes, dendritic cells and on trophoblast cells. The flt-1 gene was first described in 1990. The receptor contains seven immunoglobulin-like extracellular domains, a single transmembrane

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

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region and an intracellular split tyrosine kinase domain. Compared to VEGFR-2 the Flt-1 receptor has a higher affinity for VEGF but a weaker signaling activity. VEGFR-1 thus leads not to proliferation of endothelial cells, but mediates signals for differentiation. Interestingly a naturally occurring soluble variant of VEGFR-1 (sVEGFR-1) was found in HUVE supernatants in 1996, which is generated by alternative splicing of the flt-1 mRNA. The biological functions of sVEGFR-1 still are not clear, but it seems to be an endogenous regulator of angiogenesis, binding VEGF with the same affinity as the full-length receptor.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles.

Background

FTL1 Human Recombinant is a single, glycosylated polypeptide chain containing 675 amino acids (27-687a.a) and having a molecular mass of 76.6kDa (calculated). FTL1 is composed of a 2 a.a N-terminal linker, a 2 a.a C-terminal linker and fused to a 10 a.a His tag at C-Terminus.

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