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PLGF1 Human, HEK

Placental Growth Factor-1 Human Recombinant, HEK
GRF0334

Product Overview

Name	PLGF1 Human, HEK
Description	
Placental Growth Factor-1 Human Recombinant, HEK	
Accession (Primary)	P49763-2
Synonyms	
PIGF, PGF, PLGF-1.	
Source	
HEK293 cells.	
Physical Appearance	
Sterile Filtered colorless solution.	
Formulation	
PLGF1 protein (0.5mg/ml) contains Phosphate-Buffered Saline (pH 7.4) and 10% glycerol.	
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. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.	
Purity	
Greater than 90.0% as determined by SDS-PAGE.	
Amino acid sequence	
LPAVPPQQWA LSAGNGSSEV EVVPFQEVWG RSYCRALERL VDVVSEYPSE VEHMFSPSCV SLLRCTGCCG DENLHCVPVE TANVTMQLLK IRSGDRPSYV ELTFSQHVRC ECRPLREKMK PERCGDAVPR R HHHHHH .	
Biological Activity	
Measured by its binding ability in a functional ELISA with Human VEGFR1/Flt-1.	
Background	
Implications in Pathological Angiogenesis: While PLGF1 is essential for normal vascular development, dysregulation of its expression is associated with pathological angiogenesis. In conditions such as cancer, PLGF1 can contribute to the formation of abnormal blood vessels that support tumor growth and metastasis. Investigations involving PLGF1 Human Recombinant provide insights into the mechanisms by which PLGF1 contributes to pathological angiogenesis, offering potential targets for anti-angiogenic therapies. Challenges and Future Directions: While the potential of PLGF1 Human	

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Recombinant in understanding angiogenesis is evident, challenges persist. Fine-tuning its applications, understanding its interactions with other angiogenic factors, and deciphering the context-dependent nature of its functions are critical considerations for translational success. Additionally, developing strategies to selectively target PLGF1 in pathological conditions without compromising its physiological roles poses a challenge in the pursuit of therapeutic interventions. PLGF1 Human Recombinant stands at the forefront of angiogenesis research, offering a controlled platform for scientific exploration. Its structural insights, angiogenic signaling functions, and implications in both physiological and pathological contexts position it as a key player in the evolving landscape of vascular biology. As researchers continue to delve into the molecular intricacies of PLGF1, they not only enhance our understanding of angiogenesis but also pave the way for transformative advancements in vascular-targeted therapies, shaping the future of precision medicine and anti-angiogenic interventions.

Precautions

PLGF1 Human, HEK is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P49763-2)

Background

Implications in Pathological Angiogenesis: While PLGF1 is essential for normal vascular development, dysregulation of its expression is associated with pathological angiogenesis. In conditions such as cancer, PLGF1 can contribute to the formation of abnormal blood vessels that support tumor growth and metastasis. Investigations involving PLGF1 Human Recombinant provide insights into the mechanisms by which PLGF1 contributes to pathological angiogenesis, offering potential targets for anti-angiogenic therapies. Challenges and Future Directions: While the potential of PLGF1 Human Recombinant in understanding angiogenesis is evident, challenges persist. Fine-tuning its applications, understanding its interactions with other angiogenic factors, and deciphering the context-dependent nature of its functions are critical considerations for translational success. Additionally, developing strategies to selectively target PLGF1 in pathological conditions without compromising its physiological roles poses a challenge in the pursuit of therapeutic interventions. PLGF1 Human Recombinant stands at the forefront of angiogenesis research, offering a controlled platform for scientific exploration. Its structural insights, angiogenic signaling functions, and implications in both physiological and pathological contexts position it as a key player in the evolving landscape of vascular biology. As researchers continue to delve into the molecular intricacies of PLGF1, they not only enhance our understanding of angiogenesis but also pave the way for transformative advancements in vascular-targeted therapies, shaping the future of precision medicine and anti-angiogenic interventions.

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