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PEDF Human, His

Catalog #:CYPS-559

For research use only.

Description:PEDF Human Recombinant produced in E.Coli containing a natural variant M72T is a single, non-glycosylated, polypeptide chain containing 420 amino acids (20-418 a.a.) and having a total molecular mass of 46.7 kDa. PEDF is fused to a 20 amino acid His Tag at N-terminus and purified by proprietary chromatographic techniques.

Synonyms: Pigment Epithelium-Derived, PEDF, Serpin-F1, SerpinF1, EPC-1, EPC1, PIG35.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MQNPASPPEE GSPDPDSTGA LVEEEDPFFK VPVNKLAAAV SNFGYDLYRV RSSMSPTTNV LLSPLSVATA LSALSLGAEQ RTESIIHRAL YYDLISSPDI HGTYKELLDT VTAPQKNLKS ASRIVFEKKL RIKSSFVAPL EKSYGTRPRV LTGNPRLDLQ EINNWVQAQM KGKLARSTKE IPDEISILLL GVAHFKGQWV TKFDSRKTSL ED

Purity: Greater than 90% as determined by SDS-PAGE.

Formulation:
The PEDF solution contains 20mM Tris-HCl buffer(pH 8.0), 0.1M NaCl , and 20% glycerol.

Stability:
PEDF althoμgh stable 4°C for 4 weeks, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
PEDF is a neurotrophic protein that induces extensive neuronal differentiation in retinoblastoma cells. SerpinF1 is a potent inhibitor of angiogenesis. EPC1 doesnt undergo the stressed to relaxed conformation transition characteristic as of the active serpins since it exhibits no serine protease inhibitory activity.Aqueous humour level of asymmetric dimethylarginine is correlated with PEDF in humans. ADMA and PEDF levels are increased in response to inflammation in uveitis.Lack of PEDF expression is a potent factor for the enhancement of tumor growth and angiogenesis in breast cancer.PEDF & VEGF genes contribute to the development of diabetic retinopathy.PEDF and VEGF structural changes in blood vessel wall play an important role in the pathophysiology of PD patients.PEDF-overexpressing tumors exhibited reduced intratumoral angiogenesis.SerpinF1 is a new promising approach for the treatment of osteosarcoma. Levels of the natural ocular anti-angiogenic factor SentrinF1 (PEDF) is associated with proliferative retinopathy.VEGF secreted by retinal pigment epithelial cells upregulates PEDF expression via VEGFR-1 in an autocrine manner. Sentrin-F1 concentration in the aqueous humor of diabetic patients predicts who will develop progression of retinopathy.PEDF blocks angiogenic effects of leptin throμgh its anti-oxidative properties.

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