RayBiotech, Inc.

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Certificate of Analysis and Data Sheet
Recombinant Human PEX (rHuPEX)

Catalog No.
228-11227

Source
Escherichia coli

Description

Recombinant Human PEX is a noncatalytic Metalloproteinase Fragment with Integrin Binding Activity and can inhibit cell associated collagenolytic activity both in vitro and in vivo.
Moreover, PEX can block angiogenesis and tumor growth in vivo, providing a potentially novel therapeutic approach for diseases associated with neovascularization. The appearance of PEX at sites of neovascularization may not only control normal angiogenesis, but when administered in sufficient quantities, may provide a naturally-occurring therapeutic inhibitor of diseases associated with angiogenesis.
PEX is expressed as inclusion bodies in E. coli having a molecular mass of 28,453 dalton and subsequently refolded in vitro to get biological activity s.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

The protein (1mg/ml) was lyophilized with 2mM Tris pH-7.4.

Solubility

It is recommended to reconstitute the rHuPEX in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized rHuPEX although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution rHuPEX should be stored at 4°C between 2-7 days and for future use 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.

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Activity

The bioactivity was measured by HMEC cell line; PEX can inhibit the transmembrane activity of HMEC under the stimulation of VEGF.

Purity

Greater than 95.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Anion-exchange FPLC.
(c) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel.

Endotoxin

Less than 0.1 ng/μg (IEU/μg) of PEX

Sequence

MGLEHSQDPG ALMAPIYTYT KNFRLSQDDI KGIQELYGAS PDIDLGTGPT PTLGPVTPEI
CKQDIVFDGI AQIRGEIFFF KDRFIWRTVT PRDKPMGPLL VATFWPELPE KIDAVYEAPQ
EEKAVFFAGN EYWIYSASTL ERGYPKPLTS LGLPPDVQRV DAAFNWSKNK KTYIFAGDKF
WRYNEVKKKM DPGFPKLIAD AWNAIPDNLD AVVDLQGGGH SYFFKGAYYL KLENQSLKSV
KFGSIKSDWLGC

Protein content

Protein quantitation was carried out by two independent methods:
1. UV spectroscopy at 280 nm.
2. Analysis by RP-HPLC.