

EDN2 Human

Description:EDN2 contains 21 amino acids having a molecular mass of 2546.97 Dalton.

Catalog #:HOPS-315

Synonyms:EDN2, EDN-2, vasoactive intestinal contractor peptide, VIC, ET-2, Endothelin-2, Preproendothelin-2, PPET2, ET2.

For research use only.

Physical Appearance:Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence:

Cys-Ser-Cys-Ser-Ser-Trp-Leu-Asp-Lys-Glu-Cys-Val-Tyr-Phe-Cys-His-Leu-Asp-Ile-Ile-Trp.

Purity:Greater than 95.0% as determined by RP-HPLC.

Formulation:

The protein (1mg/ml) was lyophilized with no additives.

Stability:

Lyophilized EDN2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution EDN2 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.

Usage:

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

Solubility:

It is recommended to reconstitute the lyophilized EDN2 in sterile 18M-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Introduction:

Endothelin-2 is a Hypoxia-induced Autocrine Survival Factor for Breast Tumor Cells. The synthesis of EDN2 by human kidney carcinoma cells is decreased by EGF. EDN2 is a chemoattractant for macrophages and THP-1 monocytic cells. Chemotaxis towards EDN2 is via the MAPK pathway: p44 and p42 are phosphorylated when THP-1 cells are stimulated with EDN2. Migration to EDN2 is inhibited by hypoxia and by pertussis toxin. EDN2 leads to activation of macrophages. EDN2 shares a similar peptide sequence with chemokines and may signal via a similar receptor and MAPK-mediated pathway. Furthermore, EDN2 expression by tumors may modulate the behavior of macrophages such that activated cells accumulate in areas of hypoxia.

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