
Product Data Sheet

Product Name: EDN2 Human
 Cat. No.: GP21239
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	ET2; PPET2; Endothelin-2; ET-2; Preproendothelin-2; EDN2.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSQAAATLE QPASSSHAQG THLRLRRCSC SSWLDKECVY FCHLDIIWVN TPEQTAPYGL GNPPRRRRRS LPRRCQCSSA RDPACATFCL RRPWTEAGAV PSRKSPADV F QTGKTGATTG ELLQRLRDIS TVKSLFAKRQ QEAMREPRST HSRWRKR.		
Formulation	EDN2 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.4M urea and 10% glycerol.		

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.

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.

Background

EDN2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide

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

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chain containing 177 amino acids (25-178 a.a.) and having a molecular mass of 19.9kDa. EDN2 is fused to a 23 amino acid His-tag at N-terminus.

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