
Product Data Sheet

Product Name: EDN3
Cat. No.: GP21240
Batch No.: 1

Product Data

Purity	>98%	Source	
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	EDN3; EDN-3; ET-3; ET3; WS4B; HSCR4; MGC15067; MGC61498; Endothelin-3; Preproendothelin-3; PPET3.		
Amino Acid Sequence	H-Cys-Thr-Cys-Phe-Thr-Tyr-Lys-Asp-Lys-Glu-Cys-Val-Tyr-Tyr-Cys-His-Leu-Asp-Ile-Ile-Trp-OH.		
Solubility	It is recommended to reconstitute the lyophilized EDN3 in sterile Acetic Acid not less than 0.5mg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The protein (1mg/ml) was lyophilized with no additives.		

Introduction

EDN3 interacts with endothelin receptor B, on the surface of cells. Throughout embryonic development, EDN3 takes part in neural crest cells that migrate from the developing spinal cord to specific regions in the embryo, where they give rise to many different types of cells. EDN3 and EDN3R are necessary for the formation of nerves in the large intestine (enteric nerves) and melanocytes (produce melanin). Mutations in the EDN3 gene is linked with Waardenburg syndrome, type IV that is characterized by changes in skin, hair, and eye coloring. Mutations in the EDN3 gene is linked with Hirschsprung disease that causes severe constipation or intestinal blockage.

Stability

Lyophilized EDN3 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution EDN3 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.

Background

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

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EDN3 contains 21 amino acids having a molecular mass of 2643.08 Dalton, and the molecular formula is: C₁₂₁H₁₆₈N₂₆O₃₃S₄. Disulfide bonds between cys-1 and cys-15 + cys-3 and cys-11.

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