
Product Data Sheet

Product Name: ENSA Human
 Cat. No.: GP23403
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	ARPP-19e; Alpha endosulfine isoform 3; Alpha-endosulfine; ENSA; MGC4319; MGC8394; MGC78563.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MSQKQEEENP AEETGEEKQD TQEKEGILPE RAEEAKLKAK YPSLGQKPGG SDFLMKRLQK GQKYFDSGDY NMAKAKMKNK QLPSAGPDKN LVTGDHIPTP QDLPQRKSSL VTSKLAGGQV E.		
Formulation	The Endosulfine Alpha protein solution contains 20mM Tris, pH-8, 1mM DTT and 10% glycerol.		

Introduction

ENSA is an endogenous ligand for sulfonylurea receptor. ENSA reduces K(ATP) channel currents by inhibiting sulfonylurea from binding to the receptor and thus stimulates insulin secretion. Endosulfine Alpha is part of a conserved cAMP-regulated phosphoprotein (ARPP) family. Endosulfine Alpha is an endogenous ligand for the sulfonylurea receptor, ABCC8/SUR1. Endosulfine Alpha is an endogenous regulator of KATP channels. ENSA modulates insulin secretion through the interaction with KATP channel. ENSA is a candidate gene for type 2 diabetes. ENSA is expressed in a wide range of tissues including muscle, brain, and endocrine tissues.

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

ENSA Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 141 amino acids (1-121 a.a.) and having a molecular weight of

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15.5kDa. The ENSA is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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