Product Data Sheet

Product Name:	MREG Human
Cat. No.:	GP23948
Batch No.:	1

Product Data

Purity	>98%	Source	Escherichia Coli.
Phycical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Melanoregulin; DSU; Dilute Suppressor Protein Homolog; WDT2;Whn-Dependent Transcript 2.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMGLRDWL RTVCCCCGCE CLEERALPEK EPLVSDNNPY SSFGATLVRDDEKNLWSMPH DVSHTEADDD RTLYNLIVIR NQQAKDSEEW QKLNYDIHTL RQVRREVRNR WKCILEDLGFQKEADSLLSV TKLSTISDSK NTRKAREMLL KLAEETNIFP TSWELSERYL FVVDRLIALD AAEEFFKLARRTYPKKPGVP CLADGQKELH YLPFPSP		
Formulation	MREG protein solution (0.5mg/ml) containing 20mM Tris-HClbuffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.		

Introduction

Melanoregulin(MREG) takes part in membrane fusion and in regulating the biogenesis of diskmembranes of photoreceptor rods. MREG is expressed in photoreceptor cells astwo isoforms as a result of alternative splicing. MREG interacts withPeripherin-2, a photoreceptor specific tetraspanin protein which is required topreserve normal cell structure during the renewal process of membrane fusion.Moreover, MREG plays a part in the incorporation of pigments into hair.

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).Please avoid freeze thaw cycles.

Background

MREG Human Recombinant produced in E.Coli is a single,non-glycosylated polypeptide chain containing 237 amino acids (1-214 a.a) andhaving a molecular mass of

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27.3kDa.MREG is fused to a 23 amino acid His-tag at N-terminus& purified by proprietary chromatographic techniques.

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