
Product Data Sheet

Product Name: RNLS Human
 Cat. No.: GP22227
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Renalase FAD-Dependent Amine Oxidase; Chromosome 10 Open Reading Frame 59; Monoamine Oxidase-C; C10orf59; FLJ11218; Renalase; MAO-C; EC 1.4.-.-.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMALLRRQ TSGPLYLAVW DKAEDSGGRM TTACSPHNPQ CTADLGAQYI TCTPHYAKKH QRFYDELLAY GVLRPLSSPI EGMVMKEGDC NFVAPQGISS IIKHYLKESG AEVYFRHRVT QINLRDDKWE VSKQTGSPEQ FDLIVLTPMV PEILQLQGDITTLISECQRQ QLEAVSYSSR YALGLFYEAG TKIDVPWAGQ YITSNPCIRF VSIDNKKRNI ESSEIGPSLV IHTTVPFQVT YLEHSIEDVQ ELVFQQLENI LPGLPQPIAT KCQKWRHSQV TNAANCPGQ MTLHHKPFLA CGGDGFTQSN FDGCITSALC VLEALKNYI		
Formulation	The RNLS solution contains 20mM Tris-HCl buffer (pH 8.0), 2M Urea and 10% glycerol.		

Introduction

Renalase (RNLS) is a flavin adenine dinucleotide-dependent amine oxidase which is secreted into the blood from the kidney. RNLS acts as a hormone which metabolizes circulating catecholamines that have an active role in the sympathetic and parasympathetic nervous systems. High catecholamine concentration activates plasma RNLS and promotes its secretion and synthesis.

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

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

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RNLS Human Recombinant produced in E. coli is a single polypeptide chain containing 349 amino acids (18-342) and having a molecular mass of 38.8 kDa. RNLS is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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