
Product Data Sheet

Product Name: OSGEP Human

Cat. No.: GP22037

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	O-Sialoglycoprotein Endopeptidase; T(6)A37Threonylcarbamoyladenine Biosynthesis Protein OSGEP; TRNAThreonylcarbamoyladenine Biosynthesis Protein OSGEP; N6-L-Threonylcarbamoyladenine Synthase; T(6)A Synthase; HOSGEP; GCPL1; Probable TRNAThreonylcarbamoyladenine Biosynthesis Protein OSGEP; Probable TRNAN6-Adenosine Threonylcarbamoyltransferase ; Probable O-Sialoglycoprotein Endopeptidase; EC 3.4.24.57; EC 2.3.1.234; FLJ20411; OSGEP1; PRSMG1; KAE1; Probable tRNA N6-adenosine threonylcarbamoyltransferase.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMPAVLGF EGSANKIGVG VVRDGKVLAN PRRTYVTPPG TGFLPGDTARHHRAVILDLL QEALTESGLT SQDIDCIAYT KGPGMGAPLV SVAVVARTVA QLWNKPLVGV NHCIGHIEMGRLITGATSPT VLYVSGGNTQ VIAYSEHRYR IFGETIDIAVGNCLDRFARV LKISNDPSPG YNIEQMAKRG KKLVELPYTV KGMDVSFSGILSFIEDVAHR MLATGECTPE DLCFSLQETV FAMLVEITER AMAHCGSQEA LIVGGVGCNV RLQEMMATMCQERGARLFAT DERFCIDNGA MIAQAGWEMF RAGHRTPLSD SGVTQRYRTD EVEVTWRD.		
Formulation	OSGEP protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 10% glycerol and 0.4M Urea.		

Introduction

O-Sialoglycoprotein Endopeptidase, also known as OSGEP is a member of the KAE1 / TsaD family. OSGEP is essential for the formation of threonylcarbamoyl group on adenosine at position 37 (t6A37) in tRNAs which read codons beginning with adenine. OSGEP take a direct catalytic part in the above reaction, however other proteins of the

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complex are required to fulfill this activity.

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

OSGEP Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 358 amino acids (1-335 a.a) and having a molecular mass of 38.8kDa. OSGEP is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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