
Product Data Sheet

Product Name: ORC6 Human
 Cat. No.: GP24103
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Origin Recognition Complex Subunit 6; Origin Recognition Complex Subunit 6 Homolog-Like (Yeast); ORC6L.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMGSELIG RLAPRLGLAE PDMLRKAEEY LRLSRVKCVG LSARTTETSS AVMCLDLAAS WMKCPLDRAY LIKLSGLNKE TYQSCLKSFE CLLGLNSNIG IRDLAVQFSC IEAVNMASKI LKSYESSLPQ TQQVDLDSR PLFTSAALLS ACKILKLVKVD KNKMOVATSGV KKAIFDRLCK QLEKIGQQVD REPGDVATPP RKRKKIVVEA PAKEMEKVEE MPHKPQKDED LTQDYEEWKR KILENAASAQ KATAE		
Formulation	The ORC6 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 0.2M NaCl, 2mM DTT and 40% glycerol.		

Introduction

ORC6 is a member of the origin recognition complex (ORC) which is a highly conserved heterohexameric protein complex. ORC contacts to DNA at or near sites of initiation of DNA replication and all of its six subunits are vital for initiation of DNA replication. Additionally, ORC takes part in regulation of gene expression in response to stress. ORC6 is regularly expressed throughout the cell cycle. ORC2, ORC3, ORC4 and ORC5 form a primary complex at which point ORC6 and ORC1 assemble.

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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ORC6 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 275 amino acids (1-252) and having a molecular mass of 30.5kDa. ORC6 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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