

Recombinant human Ubc9/UBE2I protein

Catalog Number: UBC3001

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-158aa

UniProt No.

P63279

NCBI Accession No.

NP_003336

Alternative Names

Ubiquitin conjugating enzyme E2 I, SUMO-conjugating enzyme UBC9, ING-type E3 SUMO transferase UBC9, SUMO-protein ligase, Ubiquitin carrier protein 9, Ubiquitin carrier protein I, Ubiquitin-conjugating enzyme E2 I, Ubiquitin-protein ligase I, p18, UBCE9

PRODUCT SPECIFICATION

Molecular Weight

18 kDa (158aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 50mM HEPES buffer (pH 7.4) containing 150mM NaCl, 1mM DTT, 10%glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

Non-Tagged

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Human ubc9 is homologous to ubiquitin-conjugating enzymes (E2s). However, instead of conjugating ubiquitin, it conjugates a ubiquitin homologue, small ubiquitin-like modifier 1 (SuMO-1). And hubc9 retains striking structural

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and functional conservation with yeast ubc9. The ubiquitin-dependent protein degradation system has been recognized as a complete enzymatic pathway that is responsible for the selective degradation of abnormal and short-lived proteins. The conjugation of ubiquitin requires the activities of ubiquitin-activating (E1) and -conjugating (E2) enzymes.

Amino acid Sequence

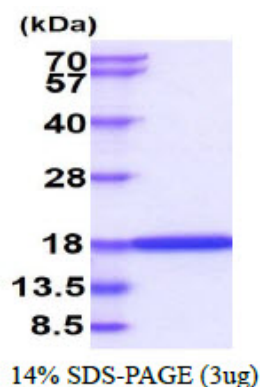
MSGIALSRLA QERKAWRKDH PFGFVAVPTK NPDGTMNLMN WECAIPGKKG TPWEGGLFKL RMLFKDDYPS SPPKCKFEPP
LFHPNVYPSG TVCLSILEED KDWRPAITIK QILLGIQELL NEPNIQDPAQ AEAYTIYCQN RVEYEKRVRA QAKKFAPS

General References

Tatham MH., et al (2003) Biochemistry. 42(11) 3168-3179
Donghai Lin, et al (2002) J. Biol. Chem. 277(24) 21740-21748.
Wang ZY., et al. (1996) J. Biol. Chem. 271(40):24811-6.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.