

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

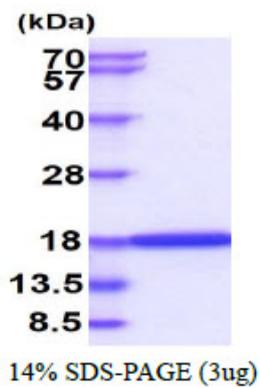
MSGIALSRLA QERKAWRKDH PFGFVAVPTK NPDGTMNLMN WECAIPGKKG TPWEGGLFKL RMLFKDDYPS SPPKCKFEPP
LFHPNVYPSG TVCLSILEED KDWRPAITIK QILLGIQELL NEPNIQDPAQ AEAYTIYCQN RVEYEKRVRA QAKKFAPS

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.