



Product Datasheet

Product Name	Ubiquitin-Conjugating Enzyme E2I Human Recombinant, His Tag
Cata No	CB500453
Source	<i>Escherichia Coli.</i>
Synonyms	SUMO-conjugating enzyme UBC9, EC 6.3.2.-, SUMO-protein ligase, Ubiquitin-conjugating enzyme E2 I, Ubiquitin-protein ligase I, Ubiquitin carrier protein I, Ubiquitin carrier protein 9, p18, UBC9, C358B7.1.

Description

Human Ubiquitin Conjugating Enzyme 9 (Ubc9) is a member of the E2 family and is specific for the conjugation of SUMO to a variety of target proteins. SUMO conjugation to target proteins is mediated by a different, but analogous, pathway to ubiquitylation. This E2 is unusual in that it interacts directly with protein substrates that are modified by sumoylation, and may play a role in substrate recognition. Ubc9 can mediate the conjugation of SUMO-1 to a variety of proteins including RanGAP1, IκBα, and PML without the requirement of an E3 ligase.

Ubiquitin-Conjugating Enzyme E2I Human Recombinant produced in E.coli is a 19.5 kDa protein containing 171 amino acids.

The UBE2I protein contains 6xHis tag and is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered white lyophilized powder.

Purity

Greater than 95.0% as determined by:

(a) Analysis by RP-HPLC

(b) Analysis by SDS-PAGE.

Formulation

Lyophilized from a 0.2µm filtered concentrated (1mg/ml) solution in 1X PBS and 1mM DTT, pH 7.5.

Stability

Lyophilized UBE2I although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution UBE2I should be stored at 4°C between 2-7 days and for future use below -18°C.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Please prevent freeze-thaw cycles.

Sequence

MHHHHHHAMGTLNMSGIALSRLAQERKAWRKDH
PFGFVAVPTKNPDGT
MNL MNWECAIPGKKGTPWEGGLFKLRMLFKDDY
PSSPPKCKFEPPLFH
PNVYPSGTVCLSILEEDKDWRPAITIKQILLGIQELL
NEPNIQDPAQAEAYTI
YCQNRVEYEKRVRAQAKKFAPS.