

dtUD1 vector

Catalogue number: 156511

Sub-type: pETSU vector containing an untagged yeast SUMO sequence

Images:

Contributor

Inventor: Dr. Patrick Loll

Institute: Drexel University

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: dtUD1 vector

Alternate name:

Class:

Conjugate:

Description: Affinity-tagged small ubiquitin related modifier (SUMO) fusion proteins generated by the cloning vectors: pETHSUL, pETS2SUL, pASHSUL, or pASS2SUL are treated with recombinant SUMO protease, generated from the pdtUD1 vector, to cleave SUMO and yield the mature target protein. Instructions for vector expression, purification, and use are outlined in: Weeks, S. D., Drinker, M., & Loll, P. J. (2007). Ligation independent cloning vectors for expression of SUMO fusions. Protein expression and purification, 53(1), 40-50. doi:10.1016/j.pep.2006.12.006 Protein Purification; Protein Biochemistry

Purpose:

Parental cell:

Organism:

Tissue:

Model:

Gender:

Isotype:

Reactivity:

Selectivity:

Host:

Immunogen:

Immunogen UNIPROT ID:

Sequence:

Growth properties:

Production details:

Formulation:

Recommended controls:

Bacterial resistance:

Selectable markers:

Additional notes: The pdtUD1 vector allows the production of recombinant UD1 domain of the *S. cerevisiae* Ulp1 protein (small ubiquitin related modifier (SUMO) protease). The UD1 domain retains the full SUMO-specific proteolytic activity. The recombinant protease has an amino terminal Strep-II tag and a carboxy terminal His6 tag to allow for easy purification of the recombinant protease. The dual tags also allow the protease to be removed after cleavage of the SUMO fusion protein generated by the cloning vectors: pETHSUL, pETS2SUL, pASHSUL, or pASS2SUL, by using subtractive affinity chromatography.

Target details

Target: A dual tagged clone of the catalytic domain (dtUD1) of the *S. cerevisiae* SUMO hydrolase. The recombinant protease has an amino terminal Strep-II tag and a carboxy terminal His6 tag.

Target alternate names:

Target background:

Molecular weight:

Ic50:

Applications

Application:

Application notes: Affinity-tagged small ubiquitin related modifier (SUMO) fusion proteins generated by the cloning vectors: pETHSUL, pETS2SUL, pASHSUL, or pASS2SUL are treated with recombinant SUMO protease, generated from the pdtUD1 vector, to cleave SUMO and yield the mature target protein. Instructions for vector expression, purification, and use are outlined in: Weeks, S. D., Drinker, M., & Loll, P. J. (2007). Ligation independent cloning vectors for expression of SUMO fusions. Protein expression and purification, 53(1), 40–50. doi:10.1016/j.pep.2006.12.006 Protein Purification; Protein Biochemistry

Handling

Format:

Concentration:

Passage number:

Growth medium:

Temperature:

Atmosphere:

Volume:

Storage medium:

Storage buffer:
Storage conditions:
Shipping conditions:

Related tools

Related tools:

References

References: Weeks et al. 2007. Protein Expr Purif. 53(1):40-50. PMID: 17251035.

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