

MUT-4857 rbcS2-C65P mt-

Cat. No. ALS-03992

Lot. No. (See product label)

Subcategory

Mutants

Description

Using standard methods of directed mutagenesis and nuclear-gene transformation of rbcS Δ -T60-3 mt- (MUT-4690), a C65P substitution (TGC-CCG) was created in the Rubisco small subunit. This mutant was created to investigate rbcS suppression of an rbcL mutation. See also R88-5A (rbcL-L290F/rbcS2-C65S). The C65P substitution in the Rubisco small subunit causes a decrease in CO₂/O₂ specificity but improves holoenzyme thermal stability. This strain has been maintained with acetate medium in darkness to prevent selection for secondary mutations that may improve Rubisco function.

Species

Chlamydomonas

Locus

RBCS2

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