

CRISPR-Associated Protein-9 Nuclease *S. Pyogenes* Recombinant

Item Number	rAP-1350
Synonyms	CRISPR-associated endonuclease Cas9/Csn1, SpyCas9, cas9, csn1.
Description	Recombinant Cas9-NLS produced in E.coli, comprises the entire Cas9 protein sequence (1368 amino acids) joined to a proprietary nuclear localization sequence (NLS) and a 6xHis tag at the C-terminus, having a total of 1414 amino acids. The protein has an apparent molecular weight of 163kDa.
Uniprot Accession Number	Q99ZW2
Amino Acid Sequence	
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered colorless solution. Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
Formulation and Purity	The CAS9 solution contains 10mM Tris-HCl, 300mM NaCl, 0.1mM EDTA, 50% glycerol and 1mM DTT pH 7.5. Greater than 90% as determined by SDS-PAGE.
Application	
Solubility	
Biological Activity	
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**