

TtCsm6 recombinant protein

TtCsm6

CATALOG # AAA73385	HOST E Coli
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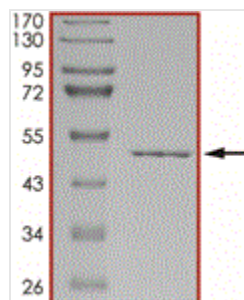
PRODUCT SYNONYMS

TtCsm6; CRISPR system endoribonuclease Csm6; CRISPR type III-A associated protein Csm6; csm6; TtCsm6 recombinant protein

PRODUCT SPECIFICATIONS

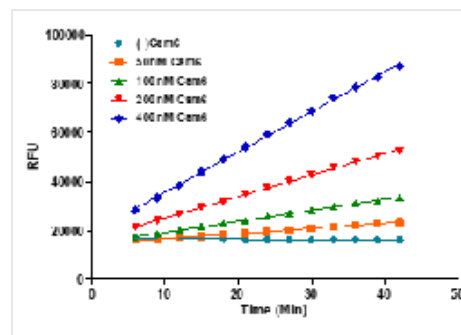
Host	E Coli
Form/Format	Recombinant protein stored in 50mM sodium phosphate, pH7.5, 300mM NaCl, 150mM imidazole, 1mM DTT, 10% glycerol.
Tag	HIS
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



SDS-PAGE

Purity: Sample purity data. For lot-specific data, please refer to the lot-specific datasheet.



Activity

Specific Activity: Sample activity data. for lot-specific data, please refer to the lot-specific datasheet.

ADDITIONAL INFORMATION

Related Product Information for TtCsm6 recombinant protein	Recombinant Thermus thermophilus TtCsm6 was expressed in E Coli cells using a C -terminal His tag. The protein accession number is WP_011229148. TtCsm6 is a single-stranded RNA-specific endoribonuclease protein that consists of the N-terminal CARF domain and the C-terminal HEPN domain. The ribonuclease active site is formed by the HEPN domain dimer and it contributes to the Type-III-A CRISPR-Cas system (1). Upon activation of the CRISPR ancillary ribonucleases Csx1/Csm6, the HEPN active site degrades invasive RNA non-specifically. TtCsm6 is activated by the cyclic oligoadenylate second messengers that was converted from ATP by the Cas10 subunit of the Type III interference complex (2).
Product Categories/Family for TtCsm6 recombinant protein	Allergens

References

1. Niewoehner, O. et al: Structural basis for the endoribonuclease activity of the type III-A CRISPR-associated protein Csm6. Rna 22(3):318-329,2016. 2. Niewoehner, O. et al: Type III CRISPR-Cas systems produce cyclic oligoadenylate second messengers. Nature 548(7669): 543-548, 2017.

NCBI AND UNIPROT INFORMATION

Molecular Weight

53kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/ttcs6-recombinant-protein-e-coli/73385>