m7GTP Agarose

Cat. No. m7GTP-001A **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Immobilized γ-Aminophenyl-7-Methyl-guanosine 5'-triphosphate (m7GTP) is suitable for purification of eukaryotic mRNA cap-binding proteins.
Size	1 mL, 5 mL
Sterilization	Not autoclavable
Matrix	Highly cross-linked agarose
Average particle size	45 - 165 µm
Ligand	m7GTP
Ligand concentration	5-7 umol m7GTP/ml gel
Recommended flow rate	11.5-150 cm/h
Chemical stability	Stable to all solutions commonly used in gel filtration including 8 M urea and 6 M guanidine hydrochloride. Not stable in organic solvents.
pH working range	Short term: 4-9 Long term: 7.5
pH stability	4-9

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Maximum pressure	0.25 bar(3.6 psi)
pH CIP range	4-9
Shelf life	24 months
Publications	Estrogen receptor α promotes protein synthesis by fine-tuning the expression of the eukaryotic translation initiation factor 3 subunit f (eIF3f) (2018) A novel role of the vaccinia virus mRNA capping enzyme in determining virus host range (2018) Hematopoietic Stem and Progenitor Cells Exhibit Stage-Specific Translational Programs via mTOR- and CDK1-Dependent Mechanisms (2020) YWHAE/14-3-3ε expression impacts the protein load, contributing to proteasome inhibitor sensitivity in multiple myeloma (2020) RNA-binding protein FXR1 drives cMYC translation by recruiting eIF4F complex to the translation start site (2021) eIF4E assembly into C. elegans germ granules is essential for its repressive function (2025)
Storage	Store at 4°C. Short term exposure (up to 1 week cumulative) to ambient temperature possible.
Storage Buffer	20 % Ethanol
Applications	Suitable for purification of eukaryotic mRNA cap-binding proteins.
Shipping	Shipped at 4 centigrade.
Notes	For general laboratory use.

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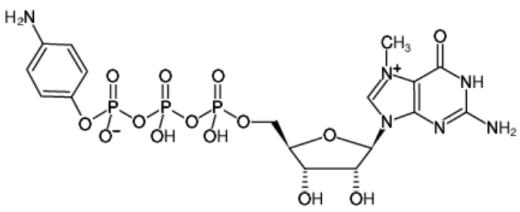
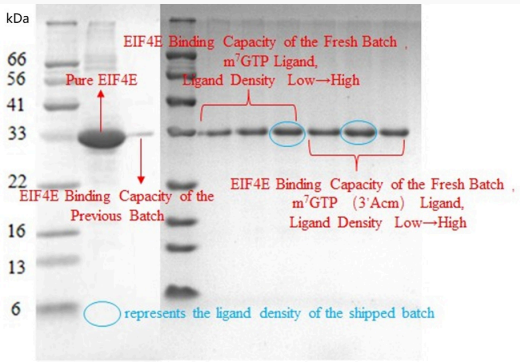
Structural formula of γ-Aminophenyl-m7GTP	
Binding Capacity with EIF4E-2775H	

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