

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 μ m
Ligand	m7GTP
Ligand concentration	5-7 μ mol 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	<p>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)</p>
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.
Structural formula of γ-Aminophenyl-m7GTP	

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**Binding Capacity
with EIF4E-2775H**

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