

MTA/SAH nucleosidase Protein, E. coli O9:H4, Recombinant (His & Myc)

General Information

Synonyms:	5'-methylthioadenosine/S-adenosylhomocysteine nucleosidase;5'-methylthioadenosine nucleosidase (MTA nucleosidase);MTAN;MTA/SAH nucleosidase;S-adenosylhomocysteine nucleosidase (AdoHcy nucleosidase;SAH nucleosidase;SRH nucleosidase);5'-deoxyadenosine nucleosidase (DOA nucleosidase;dAdo nucleosidase);mtnN
Protein Construction:	1-232 aa
Species:	E. coli
Expression Host:	E. coli
Accession:	A7ZWA7
Molecular Weight:	31.8 kDa (predicted)
AA Sequence:	MKIGIIGAMEEEVTLRRDKIEKRQTISLGGCEIYTGQLNGTEVALLKSGIGKVAALGATLLLEHCKPDVIINTGSA GGLAPTLKVGDIVVSDEARYHDADVAFGYEYQPLPGCPAGFKADDKLIAAAEEACIAELNLNAVRGLIVSGDA FINGSVGLAKIRHNFPQAIIVEMEATAIAHVCHNFNVFVWVRAISDVADQQSHLSFDEFLAVAAKQSSLMVE SLVQKLAHG

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:	Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.
Stability & Storage:	Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots. <small>Actual storage temperature shall be subject to the COA.</small>
Shipping:	In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Catalyzes the irreversible cleavage of the glycosidic bond in both 5'-methylthioadenosine (MTA) and S-adenosylhomocysteine (SAH/AdoHcy) to adenine and the corresponding thioribose, 5'-methylthioribose and S-ribosylhomocysteine, respectively. Also cleaves 5'-deoxyadenosine, a toxic by-product of radical S-adenosylmethionine (SAM) enzymes, into 5-deoxyribose and adenine. Thus, is required for in vivo function of the radical SAM enzymes biotin synthase and lipoic acid synthase, that are inhibited by 5'-deoxyadenosine accumulation.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481