

Recombinant Human GNMT Protein (His Tag)

Catalog Number:PKSH032498



Note: Centrifuge before opening to ensure complete recovery of vial contents.

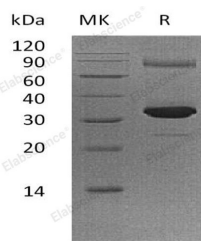
Description

Synonyms	Glycine N-Methyltransferase;GNMT
Species	Human
Expression Host	E.coli
Sequence	Met1-Asp295
Accession	Q14749
Calculated Molecular Weight	34.9 kDa
Observed molecular weight	33-37 kDa
Tag	N-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.
Formulation	Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 150mM NaCl, pH 8.0.
Reconstitution	Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Glycine N-Methyltransferase (GNMT) is a tetrameric cytosolic protein. GNMT catalyzes the synthesis of N-methylglycine from glycine using S-adenosylmethionine (AdoMet) as the methyl donor. It can affect DNA methylation by regulating the ratio of S-adenosylmethionine to S-adenosylhomocystine, playing an important role in maintaining normal AdoMet levels. GNMT is highly expressed in liver. As a major folate-binding protein, GNMT takes part in the detoxification pathway. Defects in GNMT are the cause of hypermethioninemia. The patients with this deficiency are mild hepatomegaly and chronic elevation of serum transaminases.

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