Recombinant Mouse Get3 Protein, Myc/DDK-tagged

Cat. No. Get3-1746M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length arsA arsenite transporter, ATP-binding, homolog 1 (bacterial) (Asna1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	ATPase required for the post-translational delivery of tail-anchored (TA) proteins to the endoplasmic reticulum. Recognizes and selectively binds the transmembrane domain of TA proteins in the cytosol. This complex then targets to the endoplasmic reticulum by membrane-bound receptors, where the tail-anchored protein is released for insertion. This process is regulated by ATP binding and hydrolysis. ATP binding drives the homodimer towards the closed dimer state, facilitating recognition of newly synthesized TA membrane proteins. ATP hydrolysis is required for insertion. Subsequently, the homodimer reverts towards the open dimer state, lowering its affinity for the membrane-bound receptor, and returning it to the cytosol to initiate a new round of targeting.
Molecular Mass	38.8 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Get3 guided entry of tail-anchored proteins factor 3, ATPase [Mus musculus (house mouse)]
Official Symbol	Get3
Synonyms	Get3; guided entry of tail-anchored proteins factor 3, ATPase; A; ArsA; Asna1; 1810048H22Rik; ATPase GET3; ATPase Asna1; arsenical pump-driving ATPase; arsenite-stimulated ATPase; arsenite-translocating ATPase; EC 7.3.2.7
Gene ID	56495
mRNA Refseq	NM_019652
Protein Refseq	NP_062626
UniProt ID	O54984

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