Datasheet for ABIN7548232

N6AMT1 Protein (AA 1-214) (His tag)

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Overview

Quantity:	1 mg
Target:	N6AMT1
Protein Characteristics:	AA 1-214
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This N6AMT1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant N6AMT1 Protein expressed in mammalian cells.
Sequence:	MAGENFATPF HGHVGRGAFS DVYEPAEDTF LLLDALEAAA AELAGVEICL EVGSGSGVVS AFLASMIGPQ ALYMCTDINP EAAACTLETA RCNKVHIQPV ITDLVKGLLP RLTEKVDLLV FNPPYVVTPP QEVGSHGIEA AWAGGRNGRE VMDRFFPLVP DLLSPRGLFY LVTIKENNPE EILKIMKTKG LQGTTALSRQ AGQETLSVLK FTKS **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts.

Product Details

	• Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	N6AMT1
Alternative Name:	N6AMT1 (N6AMT1 Products)
Background:	Methyltransferase N6AMT1 (HemK methyltransferase family member 2) (M.HsaHemK2P) (Lysine N-methyltransferase 9) (EC 2.1.1.-) (Methylarsonite methyltransferase N6AMT1) (EC 2.1.1.-) (Protein N(5)-glutamine methyltransferase) (EC 2.1.1.-),FUNCTION: Methyltransferase that can methylate proteins and, to a lower extent, arsenic (PubMed:18539146, PubMed:21193388, PubMed:30017583, PubMed:31636962, PubMed:31061526). Catalytic subunit of a heterodimer with TRMT112, which monomethylates 'Lys-12' of histone H4 (H4K12me1), a modification present at the promoters of numerous genes encoding cell cycle regulators (PubMed:31061526). Catalytic subunit of a heterodimer with TRMT112, which catalyzes N5-methylation of Glu residue of proteins with a Gly-Gln-Xaa-Xaa-Xaa-Arg motif (PubMed:18539146, PubMed:31632689, PubMed:31636962). Methylates ETF1 on 'Gln-185', ETF1 needs to be complexed to ERF3 in its GTP-bound form to be efficiently methylated (PubMed:18539146, PubMed:20606008, PubMed:31636962, PubMed:31061526). May also play a role in the modulation of arsenic-induced toxicity by mediating the conversion of monomethylarsonous acid (3+) into the less toxic dimethylarsonic acid (PubMed:21193388, PubMed:25997655). It however only plays a limited role in arsenic metabolism compared with

Target Details

	AS3MT (PubMed:25997655). {ECO:0000269|PubMed:18539146, ECO:0000269|PubMed:20606008, ECO:0000269|PubMed:21193388, ECO:0000269|PubMed:25997655, ECO:0000269|PubMed:30017583, ECO:0000269|PubMed:31061526, ECO:0000269|PubMed:31632689, ECO:0000269|PubMed:31636962}.
Molecular Weight:	23.0 kDa
UniProt:	Q9Y5N5

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months