

For Research Use Only

Recombinant Human KMT2A protein (Myc Tag, His Tag)



Catalog Number: Eg31413

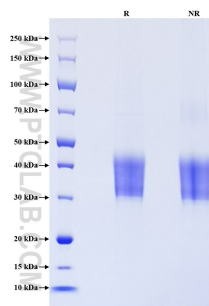
Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: Myc Tag, His Tag
Technical Specifications	Purity: >90 %, SDS-PAGE Endotoxin Level: <0.1 EU/μg protein, LAL method Source: HEK293-derived Human KMT2A protein Ala1618-Ser1786 (Accession# Q03164-1) with a Myc tag and a His tag at the C-terminus. GeneID: 4297 Accession: Q03164-1 Predicted Molecular Mass: 24.2 kDa SDS-PAGE: 30-45 kDa, reducing (R) conditions Formulation: Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.		
Biological Activity	Not tested		
Storage and Shipping	Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. • Until expiry date, -20°C to -80°C as lyophilized proteins. • 3 months, -20°C to -80°C under sterile conditions after reconstitution. Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	KMT2A, also known as mixed-lineage leukemia (MLL), is a gene that encodes a lysine methyltransferase responsible for the transcriptional activation through lysine 4 of histone 3 (H3K4) methylation. KMT2A is expressed mainly in the nucleus and is ubiquitously present in various tissues, particularly in ovary, lymph node, endometrium, thyroid, and brain tissue. It plays a significant role in embryonic development, hematopoiesis, and neurodevelopment. Mutations in KMT2A have been associated with several pathological conditions.		
References	1. Castiglioni. Silvia et al. (2022) Genes vol. 13,3 514. 2. Guarnera. Luca et al. (2024) Int J Mol Sci. 25(16):9023.		
Synonyms	KMT2A, MLL, ALL 1, ALL1, CXXC7		

For technical support and original validation data for this product please contact

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



Purity of Recombinant Human KMT2A was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.