

KMT2E Protein, Human, Recombinant (His & Myc)

General Information

Synonyms:	Myeloid/lymphoid or mixed-lineage leukemia protein 5;Inactive histone-lysine N-methyltransferase 2E;KMT2E;Inactive lysine N-methyltransferase 2E;MLL5
Protein Construction:	151-450 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q8IZD2
Molecular Weight:	42.2 kDa (predicted)
AA Sequence:	RQHIPDTYLCERCQPRNLDKERAVLLQRRKRENMSDGDTSATESGDEVPVELYTAFAQHTPTSITLTASRVSKV NDKRRKKSQEKEQHISKCKKAFREGSRKSSRVKGSAPRIDPSSDGSNFGWETKIKAWMDRYEEANNNQYSE GVQREAQRIALRLGNGNDKKEMNKSDLNTNLLFKPPVESHIQKNKKILKSAKDLPPDALIIEYRGKFMLREQ FEANGYFFKRYPFVLFYSKFHGLEMCVDARTFGNEARFIRRCTPNAEVRHEIQDGTIHLIYIHSIPKGTEITI AFDFDY

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.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

A DRUG SCREENING EXPERT

Associates with chromatin regions downstream of transcriptional start sites of active genes and thus regulates gene transcription. Chromatin interaction is mediated via the binding to tri-methylated histone H3 at 'Lys-4' (H3K4me3). Key regulator of hematopoiesis involved in terminal myeloid differentiation and in the regulation of hematopoietic stem cell (HSCs) self-renewal by a mechanism that involves DNA methylation. Also acts as an important cell cycle regulator, participating in cell cycle regulatory network machinery at multiple cell cycle stages including G1/S transition, S phase progression and mitotic entry. Recruited to E2F1 responsive promoters by HCFC1 where it stimulates tri-methylation of histone H3 at 'Lys-4' and transcriptional activation and thereby facilitates G1 to S phase transition. During myoblast differentiation, required to suppress inappropriate expression of S-phase-promoting genes and maintain expression of determination genes in quiescent cells.; Cellular ligand for NCR2/NKp44, may play a role as a danger signal in cytotoxicity and NK-cell-mediated innate immunity.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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