KDM6B Protein, Human (Sf9)

Cat. No.:	HY-P702082
Synonyms:	KDM6B; Lysine-specific demethylase 6B; JmjC domain-containing protein 3; Jumonji domain-containing protein 3; Lysine demethylase 6B; [histone H3]-trimethyl-L-lysine(27) demethylase 6B
Species:	Human
Source:	Sf9 insect cells
Accession:	O15054 (D1141-L1636)
Gene ID:	/
Molecular Weight:	56.4 kDa

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 μm filtered solution of 50 mM HEPES, pH 7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	KDM6B Protein, a histone demethylase with specificity for 'Lys-27' of histone H3, holds a central position in the intricate histone code, as evidenced by multiple studies. This enzyme demethylates both trimethylated and dimethylated H3 'Lys-27,' playing a pivotal role in shaping the epigenetic landscape. Beyond its role in histone modification, KDM6B emerges as a key regulator of posterior development, exerting influence on HOX gene expression and contributing to developmental processes. In the context of inflammatory responses, KDM6B plays a vital role in macrophage differentiation during inflammation, impacting gene expression and the differentiation process. Additionally, KDM6B exhibits a demethylase-independent function in chromatin remodeling, serving as a critical link between T-box factors and the SMARCA4-containing SWI/SNF remodeling complex, thereby regulating T-box family member-dependent gene expression (By similarity). The multifaceted roles of KDM6B underscore its significance in the dynamic regulation of chromatin structure and gene expression.

Caution: Product has not been fully validated for medical applications. For research use only.

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