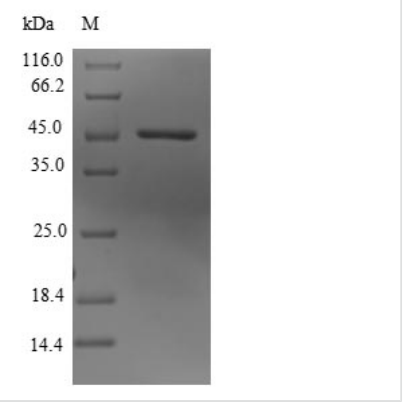
Recombinant Human Lysine-specific demethylase 3B (KDM3B), partial

Product Code	CSB-EP759174HU
Relevance	Histone demethylase that specifically demethylates 'Lys-9' of histone H3, thereby playing a central role in histone code. Demethylation of Lys residue generates formaldehyde and succinate. May have tumor suppressor activity.
Abbreviation	Recombinant Human KDM3B protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q7LBC6
Alias	JmjC domain-containing histone demethylation protein 2B Jumonji domain-containing protein 1B Nuclear protein 5qNCA
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MPTRFEDLMENLPLPEYTKRDGRLNLASRLPSYFVRPDLGPKMYNAYGLITAE DRRVGTTNLHLDVSDAVNVMVYVGIPIGEGAHDEEVLKTIDEGDADEVTKQRIH DGKEKPGALWHIYAAKDAEKIRELLRKVGEEQGQENPPDHDPIHDQSWYLDQ TLRKRLYEEYGVQGWAIVQFLGDAVFIPAGAPHQVHNLYSCIKVAEDFVSPEH VKHCFRLTQEFR
Research Area	Epigenetics and Nuclear Signaling
Source	E.coli
Target Names	KDM3B
Protein Names	Recommended name: Lysine-specific demethylase 3B EC= 1.14.11.- Alternative name(s): JmjC domain-containing histone demethylation protein 2B Jumonji domain-containing protein 1B Nuclear protein 5qNCA
Expression Region	1498-1721aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-SUMO-tagged and C-terminal Myc-tagged
Mol. Weight	45.6kDa
Protein Length	Partial
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The region for expressing recombinant Human KDM3B contains amino acids 1498-1721. The calculated molecular weight for this KDM3B protein is 45.6 kDa. Expression of this KDM3B protein is conducted in e.coli. Fusion of the N-terminal 10xHis-SUMO tag and C-terminal Myc tag into the KDM3B encoding gene fragment was conducted, allowing for easier detection and purification of the KDM3B protein in subsequent stages.

Human lysine-specific demethylase 3B (KDM3B) is an epigenetic regulator that demethylates histones, specifically removing methyl groups from lysine 9 on histone H3. Its main function involves modulating chromatin structure, influencing gene expression, and participating in cellular processes like DNA repair and cell cycle regulation. In cancer research, KDM3B is implicated in tumorigenesis and metastasis. KDM3B may serve as a potential therapeutic target in cancer treatment. In stem cell biology, KDM3B influences cell fate decisions. Investigating KDM3B provides insights into epigenetic regulation, chromatin dynamics, and disease mechanisms. Understanding its multifaceted functions contributes to advancements in epigenetics, cancer biology, and stem cell research.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.
Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.