



Recombinant Protein Technical Manual

Recombinant Human SETD7/SET7/9 Protein (His Tag)
RPES2881

Product Data:

Product SKU: RPES2881

Size: 20µg

Species: Human

Expression host: E. coli

Uniprot: NP_085151.1

Protein Information:

Molecular Mass: 41.5 kDa

AP Molecular Mass: 48 kDa

Tag: N-His

Bio-activity:

Purity: > 94 % as determined by reducing SDS-PAGE.

Endotoxin: Please contact us for more information.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile PBS, pH 7.4

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: KMT7;SET7;SET7/9;SET9

Immunogen Information:

Sequence: Asp 2-Lys 366

Background:

Histone-lysine N-methyltransferase SETD7, also known as SET domain containing (lysine methyltransferase) 7, SET7/9, Histone H3-K4 methyltransferase SETD7, H3-K4-HMTase SETD7, and SETD7, is a member of the histone-lysine methyltransferase family and SET7 subfamily. SETD7 is widely expressed and expressed in pancreatic islets. SETD7 contains three MORN repeats and one SET domain. SETD7 plays a central role in the transcriptional activation of genes such as collagenase or insulin. As a protein lysine methyltransferase (PKMT), SETD7 also has methyltransferase activity toward non-histone proteins such as p53/TP53, TAF10, and possibly TAF7 by recognizing and binding in substrate proteins. The mono-methyltransferase activity of SETD7 is achieved by disrupting the formation at near-attack conformations for the dimethylation reaction. SETD7 is also a novel coactivator of NF-kappaB and plays a role in inflammation and diabetes.