Active Recombinant Human Euchromatic Histone-lysine N-methyltransferase 1

Cat. No. EHMT1-293H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Glucagon Like Peptide-1 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 30 amino acids and having a molecular mass of 3298.7 Dalton. The GLP-1 is purified by proprietary chromatographic techniques.
Species	Human
Source	Human
Description	Glucagon-like peptide-1 (GLP-1) is derived from the transcription product of the proglucagon gene. The major source of GLP-1 in the body is the intestinal L cell that secretes GLP-1 as a guthormone. The biologically active forms of GLP-1 are: GLP-1-(7-37) and GLP-1-(7-36)NH2. GLP-1 secretion by L cells is dependent on the presence of nutrients in the lumen of the small intestine. The secretagogues (agents that causes or stimulates secretion) of this hormone include major nutrients like carbohydrate, proteinand lipid.
Form	The Recombinant GLP-1 concentrated solution (1 mg/ml) was lyophilized after extensive dialyses against 0.1 mg sodium phosphate monobasic & 1.6 mg sodium phosphate dibasic.
Purity	Greater than 95.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Bio-activity	1. Regulates Glucose levels rapidly 2. Reduces Insulin resistence 3. Reduces Glucagon 4. Reduces HbA1c 5. Stimulates beta cell growth which stimulates insulin production.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Solubility	It is recommended to reconstitute the lyophilized Glucagon Like Peptide-1 in sterile 18Mμ-cm H2O not less than 100ɡ/ml, which can then be further diluted to other aqueous solutions.
Amino acid sequence	The sequence of the first five N-terminal amino acids was determined and was found to be His-Ala-Glu-Gly-Thr.
Storage	Lyophilized Glucagon Like Peptide-1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution GLP-1 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Pathways	Lysine degradation

GENE INFORMATION

Gene Name	EHMT1 euchromatic histone-lysine N-methyltransferase 1 [Homo sapiens]
Official Symbol	EHMT1
Synonyms	EHMT1; euchromatic histone-lysine N-methyltransferase 1; GLP; GLP1; KMT1D; FP13812; FLJ12879; KIAA1876; EUHMTASE1; Eu-HMTase1; bA188C12.1; DKFZp667M072; RP11-188C12.1; histone-lysine N-methyltransferase EHMT1; H3-K9-HMTase 5; G9a like protein; G9a-like protein 1; OTTHUMP00000022711;

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	OTTHUMP00000022713; OTTHUMP00000212228; lysine N-methyltransferase 1D; histone H3-K9 methyltransferase 5; histone-lysine N-methyltransferase, H3 lysine-9 specific 5; NP_001138999.1; EC 2.1.1.43; NP_079033.4
Gene ID	79813
mRNA Refseq	NM_001145527
Protein Refseq	NP_001138999
MIM	607001
UniProt ID	Q9H9B1
Chromosome Location	9q34.3
Function	histone methyltransferase activity (H3-K27 specific); histone methyltransferase activity (H3-K9 specific); histone-lysine N-methyltransferase activity; metal ion binding; methyltransferase activity; p53 binding; protein-lysine N-methyltransferase activity; transferase activity; zinc ion binding

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA