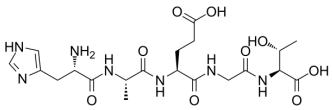
HAEGT

Cat. No.:	HY-P1230
CAS No.:	852155-81-8
Molecular Formula:	$C_{20}H_{31}N_7O_9$
Molecular Weight:	513.5
Sequence:	His-Ala-Glu-Gly-Thr
Sequence Shortening:	HAEGT
Target:	GLP Receptor; Dipeptidyl Peptidase
Pathway:	GPCR/G Protein; Metabolic Enzyme/Protease
Storage:	Sealed storage, away from moisture and light Powder -80°C 2 years -20°C 1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



BIOLOGICAL ACTIVITY

Description	HAEGT is the first N-terminal 1-5 residues of glucagon like peptide-1 (GLP-1) peptide, and the sequence is His-Ala-Glu-Gly-Thr. HAEGT acts as a competitive substrate for probing prime substrate binding sites of human dipeptidyl peptidase-IV (DPP-IV) 1, in which the N-terminal His-Ala is catalyzed cleavage by DPP-IV. HAEGT can be used in the research of diabetes, obesity[1].
IC_{50} & Target	DPP-4
In Vitro	HAEGT (0-500 μM) is a competitive substrate for probing prime substrate binding sites of human dipeptidyl peptidase-IV (DPP-IV)[1]. HAEGT can be catalyzed cleavage by DPP-IV with a k_m value of 38 μM, K_{cat} value of 3.1 S^{-1}[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Lisa M Kopcho, et al. Probing prime substrate binding sites of human dipeptidyl peptidase-IV using competitive substrate approach. Arch Biochem Biophys. 2005 Apr 15;436(2):367-76.

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