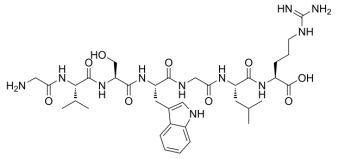
PE 22-28

Cat. No.:	HY-P3581
CAS No.:	1801959-12-5
Molecular Formula:	$C_{35}H_{55}N_{11}O_9$
Molecular Weight:	773.88
Sequence Shortening:	GVSWGLR
Target:	Potassium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PE 22-28 is a TREK-1 inhibitor with IC_{50} value of 0.12 nM. PE 22-28 also is a 7 amino-acid peptide that is used as a core sequence for preparing analogs by chemical modifications and also by substitution of amino-acids. PE 22-28 can be used for the research of depression[1].
IC_{50} & Target	IC50: 0.12 nM (TREK-1)[1]
In Vitro	PE 22-28 displays good specificity and affinity for TREK-1 channel with IC_{50} value of 0.12 nM[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	PE 22-28 (i.p.; 3.0μg/kg) shows antidepressant property[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Naïve male C57Bl/6J mice[1]
Dosage:	3.0μg/kg
Administration:	Intraperitoneal
Result:	Showed a significant reduction of the immobility time, reduced significantly the latency to eat the food pellet, induced neurogenesis and improved the action duration.

REFERENCES

[1]. Alaeddine Djillani, et al. Shortened Spadin Analogs Display Better TREK-1 Inhibition, In Vivo Stability and Antidepressant Activity. Front Pharmacol. 2017 Sep 12;8:643.

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

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