

TLQP-62 (mouse, rat)

## Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Keep away from moisture

Storage:

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	TLQP-62 (mouse, rat) is a secreted C-terminal peptide derived from the protein VGF. It activates the BDNF-TrkB signaling pathway, inducing acute and transient phosphorylation of TrkB receptors and downstream phosphorylation of CREB(Ser133). TLQP-62 effectively enhances long-term fear memory formation in wild-type mice and can reverse memory deficits in VGF heterozygous knockout mice. This compound is useful for researching memory-related neurological diseases, such as Alzheimer's disease and frontotemporal dementia.
Targets(IC50)	Endogenous Metabolite
In vitro	TLQP-62 (10 $\mu$ M, 10 min) rapidly and transiently activates TrkB receptor phosphorylation. At a concentration of 10 $\mu$ M for 30 minutes, TLQP-62 induces CREB phosphorylation at Ser133 and enhances cofilin phosphorylation in mouse hippocampal slices.
In vivo	TLQP-62, when administered bilaterally into the hippocampus at a dose of 0.3 $\mu$ g/side immediately after training, enhances long-term fear memory formation in mice. Additionally, a single intraperitoneal injection of TLQP-62 at 5 mg/kg, given right after training, reverses memory deficits in male N2F1 VGF heterozygous knockout mice.

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