

Product Name : Colivelin

Synonyms : —

Cat No. : M22352

CAS Number : 867021-83-8

Molecular Formula : C119H206N32O35

Formula Weight : 2645.1

Chemical Name : —

Description : Colivelin is a neuroprotective peptide and activator of STAT3. Colivelin is a hybrid peptide synthesized to enhance the neuroprotective effects of humanin (HN). Colivelin is a hybrid peptide composed of ADNF and AGA-(C8R)HNG17, a potent Humanin (HN) derivative. Humanin (HN) and its derivatives, such as Colivelin (CLN), suppress neuronal death induced by insults related to Alzheimer's disease (AD) by activating STAT3. Colivelin completely suppresses death induced by overexpressed FAD-causative genes and A 1-43 at a concentration of 100 fM, whereas AGA-(C8R)HNG17 does so at a concentration of 10 pM. Humanin (HN) and its derivatives, such as Colivelin (CLN) also ameliorate functional memory impairment of mice induced by anticholinergic drugs or soluble toxic amyloid- β (A β). Intracerebroventricular administration of Colivelin not only completely suppresses impairment in spatial working memory induced by repetitive intracerebroventricular injection of A β 25-35 or A β 1-42, but also it antagonizes neuronal loss in the CA1 region of hippocampus induced by hippocampal injection of A β 1-42.

Pathway : JAK/STAT Signaling

Target : STAT

Receptor : STAT3; Amyloid- β

Solubility : —

SMILES : —

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Yamada M, et al. Nasal Colivelin treatment ameliorates memory impairment related to Alzheimer's disease. *Neuropsychopharmacology*. 2008 Jul;33(8):2020-32.