



Product Information

Product ID S3351

CAS No. 25126-32-3

Chemical Name

Synonym Cholecystokinin, CCK Octapeptide (26-33), CCK8

Formula $C_{49}H_{62}N_{10}O_{16}S_3$

Formula Wt. 1143.29

Melting Point

Purity $\geq 95\%$

Solubility Soluble in PBS (0.5 mg/mL),
DMSO.

Store Temp -20°C

Ship Temp Ambient

Description Sincalide is an octapeptide fragment of cholecystokinin (CCK) that activates the CCK receptor on immune cell surfaces. Sincalide is more potent when sulfated. Sincalide exhibits neuroprotective, immunosuppressive, and anorexigenic activities. In hippocampal neurons, sincalide increases the density of filopodia and dendritic spines. In vagal motor neurons, sincalide increases excitatory currents. In other cellular models, this compound inhibits IgG1 production and regulates transcription factor expression and activation of B cells. Sincalide also modulates hormone signaling, increasing adrenocorticotrophic hormone (ACTH) secretion and altering leptin, melanocortin, and corticotropin-releasing factor (CRF) pathways. In separate animal models, sincalide decreases appetite and increases cardiac output, also increasing gastrointestinal blood flow.

Bulk quantities available upon request

Product ID	Size
S3351	0.5 mg
S3351	1 mg

References Zhang LL, Wei XF, Zhang YH, et al. CCK-8S increased the filopodia and spines density in cultured hippocampal neurons of APP/PS1 and wild-type mice. *Neurosci Lett*. 2013 May 10;542:47-52. PMID: 23541713.

Zhang JG, Cong B, Jia XX, et al. Cholecystokinin octapeptide inhibits immunoglobulin G1 production of lipopolysaccharide-activated B cells. *Int Immunopharmacol*. 2011 Nov;11(11):1685-90. PMID: 21664492.

Kang KS, Yahashi S, Azuma M, et al. The anorexigenic effect of cholecystokinin octapeptide in a goldfish model is mediated by the vagal afferent and subsequently through the melanocortin- and corticotropin-releasing hormone-signaling pathways. *Peptides*. 2010 Nov;31(11):2130-4. PMID: 20688118.

Seth H, Gräns A, Axelsson M. Cholecystokinin as a regulator of cardiac function and postprandial gastrointestinal blood flow in rainbow trout (*Oncorhynchus mykiss*). *Am J Physiol Regul Integr Comp Physiol*. 2010 May;298(5):R1240-8. PMID: 20164206.

Merino B, Cano V, Guzmán R, et al. Leptin-mediated hypothalamic pathway of cholecystokinin (CCK-8) to regulate body weight in free-feeding rats. *Endocrinology*. 2008 Apr;149(4):1994-2000. PMID: 18096657.

Wan S, Coleman FH, Travagli RA. Cholecystokinin-8s excites identified rat pancreatic-projecting vagal motoneurons. *Am J Physiol Gastrointest Liver Physiol*. 2007 Aug;293(2):G484-92. PMID: 17569742.

Porter JR, Sander LD. The effect of cholecystokinin octapeptide on pituitary-adrenal hormone secretion. *Regul Pept*. 1981

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.