LKT Laboratories, Inc.

Katacalcin

Product Information

Product ID	K0276
CAS No.	85916-47-8
Chemical Name	
Synonym	CCAP, CCP I, Calcitonin carboxyl-terminal flanking peptide
Formula	$C_{97}H_{154}N_{34}O_{36}S_2$
Formula Wt.	2436.64
Melting Point	
Purity	≥95%
Solubility	Soluble in DMSO.

H-Asp-Met-Ser-Ser-Asp-Leu-Glu-Arg-Asp-His-Arg-Pro-His-Val-Ser-Met-Pro-Gln-Asn-Ala-Asn-OH

Bulk quanitites available upon request

Product ID	Size
K0276	0.5 mg
K0276	1 mg
K0276	2.5 mg

Store Temp	-20˚C
Ship Temp	Ambient
Description	Katacalcin is a polypeptide encoded by the calc-1 gene that is also known as crustacean cardioactive peptide (CCAP or CCP1). Katacalcin exhibits immunomodulatory activity. Katacalcin activates PKA and decreases intracellular Ca2+ levels, inducing migration of CD14+ peripheral blood mononuclear cells and deactivating chemotaxis. Katacalcin may be used as a biomarker for medullary thyroid tumors. Additionally, this peptide may play a role in signaling cascade elicited by treatments for mood disorders, such as antipsychotic medications.

References Kaneider NC, Egger P, Wiedermann FJ, et al. Involvement of cyclic adenosine monophosphate-dependent protein kinase A and pertussis toxin-sensitive G proteins in the migratory response of human CD14+ mononuclear cells to katacalcin. J Bone Miner Res. 2002 Oct;17(10):1872-82. PMID: 12369791.

Angelucci F, Gruber SH, Mathé AA. A pilot study of rat brain regional distribution of calcitonin, katacalcin and calcitonin gene-related peptide before and after antipsychotic treatment. Neuropeptides. 2001 Oct-Dec;35(5-6):285-91. PMID: 12030813.

Blind E, Raue F, Klaiber T, et al. Evaluation of sensitive PDN-21 (katacalcin) determination as tumor marker in medullary thyroid carcinoma. J Endocrinol Invest. 1992 Feb;15(2):93-8. PMID: 1569295.