Data Sheet (Cat.No.T84435)

TargetMol

Nε-(1-Carboxymethyl)-L-lysine

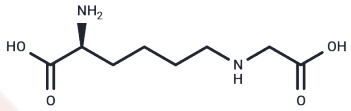
Chemical Properties

CAS No. : 5746-04-3

Formula: C8H16N2O4

Molecular Weight: 204.2

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	Nε-(1-Carboxymethyl)-L-lysine (CML), an advanced glycation end product (AGE), is formed through the oxidative modification of glycated proteins under conditions of oxidative stress.1,2,3 Its levels escalate with age, diabetes, cancer, vascular diseases, and various pathologies associated with oxidative stress.1,4,5 CML interacts with the membrane-bound receptor for AGEs (RAGE), initiating signaling via MAPKs and NF-κB pathways. Conversely, a truncated version of RAGE generates a soluble protein that sequesters CML, thereby diminishing this signaling.6,7
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.8972 mL	24.4858 mL	48.9716 mL
5 mM	0.9794 mL	4.8972 mL	9.7943 mL
10 mM	0.4897 mL	2.4486 mL	4.8972 mL
50 mM	0.0979 mL	0.4897 mL	0.9794 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481