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Produktinformation

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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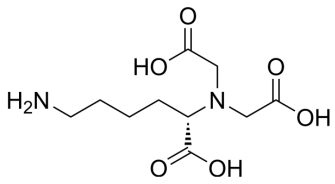
Nα,Nα-Bis(carboxymethyl)-L-lysine

Cat. No.:	HY-100047
CAS No.:	113231-05-3
Molecular Formula:	$C_{10}H_{18}N_2O_6$
Molecular Weight:	262.26
Target:	Taste Receptor
Pathway:	GPCR/G Protein
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 1.82 mg/mL (6.94 mM; Need ultrasonic)

Preparing Stock Solutions

Concentration \ Solvent \ Mass	1 mg	5 mg	10 mg
1 mM	3.8130 mL	19.0650 mL	38.1301 mL
5 mM	0.7626 mL	3.8130 mL	7.6260 mL
10 mM	---	---	---

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Nα,Nα-Bis(carboxymethyl)-L-lysine is a competitive inhibitor of bitter taste receptor 4, with an IC_{50} of 59 nM. Nα,Nα-Bis(carboxymethyl)-L-lysine can be used in bitter receptors related study[1][2][3].

In Vitro

Nα,Nα-Bis(carboxymethyl)-L-lysine (59 nM) decreases the basal activity of H214A (constitutively active mutant of T2R4) by 40%[1].

Nα,Nα-Bis(carboxymethyl)-L-lysine (60 nM, 15 mins) blocks the decrease of basal activation state of Rac1 caused by quinine in HEK293T cells overexpressing T2R4 and Ga16/44, but has no effect in HEK293T control cells[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Nα,Nα-Bis(carboxymethyl)-L-lysine (10 μM) has no effect on lick responses to bitter compounds in adult C57BL6/J[3].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Pydi SP, et al. Amino acid derivatives as bitter taste receptor (T2R) blockers. J Biol Chem. 2014;289(36):25054-25066.

[2]. Sidhu C, et al. Regulation of Rac1 GTPase activity by quinine through G-protein and bitter taste receptor T2R4. Mol Cell Biochem. 2017;426(1-2):129-136.

[3]. Masamoto M, et al. Yoshida R. Effects of bitter receptor antagonists on behavioral lick responses of mice. Neurosci Lett. 2020;730:135041.

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