

## C-Type Natriuretic Peptide (1-22) acetate (human)

### Chemical Properties

CAS No. :

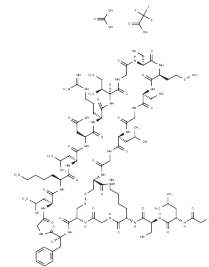
Formula: C97H162F3N27O32S3

Molecular Weight: 2371.68

Keep away from moisture

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	C-Type Natriuretic Peptide (CNP) (1-22), human acetate is an agonist of natriuretic peptide receptor B (NPR-B), an endothelial-derived relaxant and growth inhibitory factor. C-Type Natriuretic Peptide (CNP) (1-22), human acetate inhibits cAMP synthesis stimulated by histamine and 5-HT or directly by Forskolin.
Targets(IC50)	Others
In vitro	In CHO cells expressing human NPR-B, C-Type Natriuretic Peptide (CNP) (1-22), human acetate (0.01, 0.1, 1, 10, 100, 1000 nM) increased cGMP production in a concentration-dependent manner[2].
In vivo	C-Type Natriuretic Peptide (CNP) (1-22), human acetate (2 nM; i.c.v.) induced an increase in the severity of picrotoxin-kindled convulsions 24 hours after application of the peptide[3].

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.4216 mL	2.1082 mL	4.2164 mL
5 mM	0.0843 mL	0.4216 mL	0.8433 mL
10 mM	0.0422 mL	0.2108 mL	0.4216 mL
50 mM	0.0084 mL	0.0422 mL	0.0843 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.

Reference

Buckley MG, et al. Circulating C-type natriuretic peptide is increased in orthotopic cardiac transplant recipients and associated with cardiac allograft vasculopathy. Clin Sci (Lond). 2000 Nov;99(5):467-72.

Morozumi N, et al. ASB20123: A novel C-type natriuretic peptide derivative for treatment of growth failure and dwarfism. PLoS One. 2019 Feb 22;14(2):e0212680.

Mazarati AM, et al. ANP(1-28), BNP(1-32) and CNP(1-22) increase the severity of picrotoxin-kindled seizure syndrome in rats. Life Sci. 1993;52(3):PL19-24.

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