

## Hemopressin(rat) TFA

## Chemical Properties

CAS No. :	1431329-47-3
Formula:	C55H78F3N13O14
Molecular Weight:	1202.28
Storage:	Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

## Biological Description

Description	Hemopressin(rat) TFA, a nonapeptide originating from the $\alpha$ 1-chain of hemoglobin, was first isolated from rat brain homogenates. It acts as an orally active, selective, and inverse agonist of the CB1 cannabinoid receptors and demonstrates antinociceptive effects in models of inflammatory pain [1] [2].
Targets(IC50)	Cannabinoid Receptor,Others
In vivo	Hemopressin(rat) TFA induces hypotension in anesthetized rats, undergoing metabolism by endopeptidase 24.15 (EP24.15), neurolysin (EP24.16), and angiotensin-converting enzyme (ACE) [1]. When administered orally, it mitigates mechanical hyperalgesia in CCI-rats for up to 6 hours. Additionally, treatment with Hemopressin(rat) TFA reduces Egr-1 immunoreactivity (Egr-1Ir) in the spinal cord's superficial dorsal horn of CCI rats [2].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.8318 mL	4.1588 mL	8.3175 mL
5 mM	0.1664 mL	0.8318 mL	1.6635 mL
10 mM	0.0832 mL	0.4159 mL	0.8318 mL
50 mM	0.0166 mL	0.0832 mL	0.1664 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.

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