

Hello Bio, Inc.  
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500  
F. 609-228-4994

customercare-usa@helloworldbio.com



## DATASHEET

### PKA inhibitor fragment (6-22) amide

### Product overview

<b>Name</b>	PKA inhibitor fragment (6-22) amide
<b>Cat No</b>	HB0508
<b>Alternative names</b>	Protein kinase inhibitor-(6-22)-amide, PKI-(6-22)-amide
<b>Biological action</b>	Inhibitor
<b>Description</b>	Potent PKA inhibitor

### Images



### Biological Data

<b>Biological description</b>	Potent protein kinase A (PKA) inhibitor ( $K_i = 1.6$ nM). Decreases long-term potentiation (LTP) at hippocampal synapses. Reverses morphine tolerance.
-------------------------------	---

### Solubility & Handling

<b>Storage instructions</b>	-20 °C (desiccate)
<b>Solubility overview</b>	Soluble in acetonitrile
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Molecular Weight</b>	1868.08
<b>Chemical structure</b>	
<b>Molecular Formula</b>	$C_{80}H_{130}N_{28}O_{24}$
<b>CAS Number</b>	121932-06-7
<b>PubChem identifier</b>	16155227
<b>SMILES</b>	<chem>[H]N[C@@H]([C@@H](C)O)C(=O)N[C@@H](CC1=CC=C(O)C=C1)C(=O)N[C@@H](C)C(=O)N[C@@H](CC(O)=O)C(=O)N[C@@H](CC1=CC=CC=C1)C(=O)N[C@@H]([C@@H](C)CC)C(=O)N[C@@H](C)C(=O)N[C@@H](CO)C(=O)NCC(=O)N[C@@H](CCCNC(N)=N)C(=O)N[C@@H]([C@@H](C)O)C(=O)NCC(=O)N[C@@H](CCCNC(N)=N)C(=O)N[C@@H]([C@@H](C)C(N)=O)C(=O)N[C@@H](C)C(=O)N[C@@H]([C@@H](C)CC)C(N)=O</chem>
<b>InChiKey</b>	VAKHFAFLRUNHLQ-PEBJKXEYSA-N

## References

**Protein kinase inhibitor-(6-22)-amide peptide analogs with standard and nonstandard amino acid substitutions for phenylalanine 10. Inhibition of cAMP-dependent protein kinase.**

Glass DB *et al* (1989) J Biol Chem 264(24)

**PubMedID** [2760075](#)

**Inhibition of the cAMP pathway decreases early long-term potentiation at CA1 hippocampal synapses.**

Otmakhova NA *et al* (2000) J Neurosci 20(12)

**PubMedID** [10844013](#)

**Alterations in brain Protein Kinase A activity and reversal of morphine tolerance by two fragments of native Protein Kinase A inhibitor peptide (PKI).**

Dalton GD *et al* (2005) Neuropharmacology 48(5)

**PubMedID** [15814100](#)

---