

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

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

customercare-usa@hellobio.com



## DATASHEET

LIH383

### Product overview

<b>Name</b>	LIH383
<b>Cat No</b>	HB9242
<b>Biological description</b>	Novel, potent and highly selective atypical chemokine receptor ACKR3 (CXCR7) agonist. Competes directly with CXCL12-AF647 for ACKR3 binding at low nanomolar concentrations and is more potent in inducing beta-arrestin recruitment to ACKR3 ( $EC_{50} = 0.61$ nM) than the CXCL12 and CXCL11 chemokine ligands ( $EC_{50} = 1.2$ and $2.2$ nM respectively). Restrains the negative regulatory function of ACKR3 on opioid peptides to potentiate their activity in rat brain.
<b>Biological action</b>	Peptide
<b>Purity</b>	>95%
<b>Description</b>	Potent and selective ACKR3 (CXCR7) agonist. Potentiates opioid peptide activity.

### Solubility & Handling

<b>Storage instructions</b>	-20 °C
<b>Solubility overview</b>	Soluble in aqueous buffer
<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>	997.23
<b>Molecular Formula</b>	$C_{45}H_{72}N_{16}O_8S$
<b>Sequence (one letter)</b>	FGGFMRRK-NH <sub>2</sub>
<b>Sequence (three letter)</b>	H-Phe-Gly-Gly-Phe-Met-Arg-Arg-Lys-NH <sub>2</sub>
<b>Modifications</b>	Amide at C terminal lysine

### References

#### The atypical chemokine receptor ACKR3/CXCR7 is a broad-spectrum scavenger for opioid peptides

Meyrath M *et al* (2020) Nat Commun 11(1)

**PubMedID** [32561830](#)