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DATASHEET

LIH383

Product overview

Name	LIH383
Cat No	HB9242
Biological description	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.
Biological action	Peptide
Purity	>95%
Description	Potent and selective ACKR3 (CXCR7) agonist. Potentiates opioid peptide activity.

Solubility & Handling

Storage instructions	-20°C
Solubility overview	Soluble in aqueous buffer
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

Chemical Data

Molecular Weight	997.23
Molecular Formula	$C_{45}H_{72}N_{16}O_8S$
Sequence (one letter)	FGGFMRRK-NH2
Sequence (three letter)	H-Phe-Gly-Gly-Phe-Met-Arg-Arg-Lys-NH2
Modifications	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