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DATASHEET

LIH383

Product overview

Name LIH383 Cat No HB9242

Biological descriptionNovel, 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

Storage of solutions Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if

storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

Shipping Conditions Stable f

Important

Stable for ambient temperature shipping. Follow storage instructions on receipt.

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use

Chemical Data

 $\begin{tabular}{lll} \textbf{Molecular Weight} & 997.23 \\ \textbf{Molecular Formula} & $C_{45}H_{72}N_{16}O_8S$ \\ \textbf{Sequence (one letter)} & FGGFMRRK-NH2 \\ \end{tabular}$

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