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DATASHEET

IDR 1002

Product overview

 Name
 IDR 1002

 Cat No
 HB8122

Biological description Innate defence regulator peptide which enhances chemokine production and neutrophil and monocyte

recruitment to protect against bacterial infections. Shows antimicrobial, immunomodulatory and anti-

inflammatory properties.

Purity >95%

Description Innate defence regulator peptide

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 for ambient temperature shipping. Follow storage instructions on receipt.

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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

 $\begin{tabular}{lll} \textbf{Molecular Weight} & 1652.06 \\ \textbf{Molecular Formula} & $C_{79}H_{130}N_{26}O_{13}$ \\ \textbf{Sequence (one letter)} & VQRWLIVWRIRK-NH2 \\ \end{tabular}$

Sequence (three letter) H-Val-Gln-Arg-Trp-Leu-Ile-Val-Trp-Arg-Ile-Arg-Lys-NH2

CAS Number 1224095-25-3

References

Synthetic cationic peptide IDR-1002 provides protection against bacterial infections through chemokine induction and enhanced leukocyte recruitment

Nijnik A et al (2010) J Immunol 184(5)

PubMedID 20107187

Synthetic host defense peptide IDR-1002 reduces inflammation in Pseudomonas aeruginosa lung infection

Wuerth KC *et al* (2017) PLoS One 12(11) **PubMedID**29107983

Synthetic immunomodulatory peptide IDR-1002 enhances monocyte migration and adhesion on fibronectin

Madera L *et al* (2012) J Innate Immun 4(5-6) **PubMedID**22722749