PRODUCT INFORMATION

RHAU 23 (trifluoroacetate salt)

Item No. 44485

Formal Name: L-histidyl-L-prolylglycyl-L-histidyl-L-leucyl-L-lysylglycyl-L-arginyl-L-α-glutamyl-L-isoleucylglycyl-L-methionyl-L-tryptophyl-L-tyrosyl-L-alanyl-L-lysyl-L-lysyl-L-glutaminylglycyl-L-glutaminyl-L-lysyl-L-asparaginyl-L-lysine, trifluoroacetate salt

Synonym: RHAU (53-75) (human)

Peptide Sequence: HPGHLKGREIGMWYAKKQGQKNK-OH

MF: $C_{120}H_{191}N_{39}O_{30}S \bullet XCF_3COOH$

FW: 2,692.1

Purity: ≥95%

Supplied as: A solid

Storage: -20°C

Stability: ≥4 years

H—His—Pro—Gly—His—Leu—Lys—Gly—Arg—Glu—Ile—
Gly—Met—Trp—Tyr—Ala—Lys—Lys—Gln—Gly—Gln—
Lys—Asn—Lys—OH
• XCF_3COOH

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

RHAU 23 (trifluoroacetate salt) is supplied as a solid. A stock solution may be made by dissolving the RHAU 23 (trifluoroacetate salt) in the solvent of choice, which should be purged with an inert gas. RHAU 23 (trifluoroacetate salt) is slightly soluble (0.1-1 mg/ml) in DMSO.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of RHAU 23 (trifluoroacetate salt) can be prepared by directly dissolving the solid in aqueous buffers. RHAU 23 (trifluoroacetate salt) is soluble (≥10 mg/ml) in PBS (pH 7.2). We do not recommend storing the aqueous solution for more than one day.

Description

RHAU 23 is a peptide fragment of RNA helicase associated with AU-rich element protein (RHAU).[1,2] RHAU peptide fragments have been incorporated into peptide-peptide nucleic acid (PNA) conjugates and detection and pull-down probes to stabilize bimolecular guanine-quadruplexes (G4s) and capture G4 structures *in vitro*, respectively.[2,3]

References

1. Basak, S., Biswas, S., and Naskar, J. Peptides and peptide derivatives as G-quadruplex targeting ligands: A brief review. *ChemistrySelect* **8(34)**, e202302177 (2023).
2. Wen, C.J., Gong, J.Y., Zheng, K.W., *et al*. Targeting nucleic acids with a G-triplex-to-G-quadruplex transformation and stabilization using a peptide-PNA G-tract conjugate. *Chem. Commun. (Camb.)* **56(48)**, 6567-6570 (2020).
3. Zheng, K.-W., Zhang, J.-Y., He, Y.-D., *et al*. Detection of genomic G-quadruplexes in living cells using a small artificial protein. *Nucleic Acids Res.* **48(20)**, 11706-11720 (2020).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 12/4/2025

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM