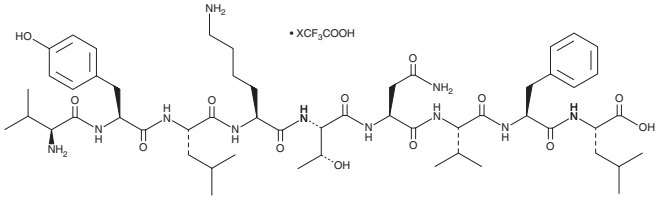
PRODUCT INFORMATION

IGRP (206-214) (mouse) (trifluoroacetate salt)

Item No. 44049

Formal Name: L-valyl-L-tyrosyl-L-leucyl-L-lysyl-L-threonyl-L-asparaginyl-L-valyl-L-phenylalanyl-L-leucine, trifluoroacetate salt
Synonyms: Islet-specific Glucose-6-phosphatase Catalytic Subunit-related Protein (206-214), Val-Tyr-Leu-Lys-Thr-Asn-Val-Phe-Leu-OH
Peptide Sequence: VYLKTNVFL-OH
MF: $C_{54}H_{85}N_{11}O_{13} \bullet XCF_3COOH$
FW: 1,096.3
Purity: ≥95%
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥4 years



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

Laboratory Procedures

IGRP (206-214) (mouse) (trifluoroacetate salt) is supplied as a crystalline solid. A stock solution may be made by dissolving the IGRP (206-214) (mouse) (trifluoroacetate salt) in the solvent of choice, which should be purged with an inert gas. IGRP (206-214) (mouse) (trifluoroacetate salt) is slightly soluble (0.1-1 mg/ml) in DMSO.

IGRP (206-214) (mouse) (trifluoroacetate salt) is slightly soluble (0.1-1 mg/ml) in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Description

Islet-specific glucose-6-phosphatase catalytic subunit-related protein (IGRP) (206-214) is an autoantigenic peptide for β-cells.[1] It promotes mouse T cell-induced lysis of RMA-S cells expressing the MHC class I receptor in a concentration-dependent manner. IGRP (206-214) is bound in a tetramer assay by $CD8^+$ T cells isolated from pancreatic islets but not those isolated from peripheral blood in non-obese diabetic mice.

Reference

1. Lieberman, S.M., Evans, A.M., Han, B., *et al.* Identification of the β cell antigen targeted by a prevalent population of pathogenic $CD8^+$ T cells in autoimmune diabetes. *Proc. Natl. Acad. Sci. USA* **100(14)**, 8384-8388 (2003).

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