PRODUCT INFORMATION

5-FAM-LPETGG (trifluoroacetate salt)

Item No. 36997

Formal Name: 3',6'-dihydroxy-N-((S)-1-((S)-1-((4S,7S,8R)-8-hydroxy-4-(hydroxyamino)-7-(2-(2-(hydroxyamino) acetamido)acetamido)-5,6-dioxononanoyl) pyrrolidin-2-yl)-5-methyl-1,2-dioxohexan-3-yl)-3-oxo-3H-spiro[isobenzofuran-1,9'-xanthene]-5-carboxamide, trifluoroacetate salt

Synonym: 5-Carboxyfluorescein-LPETGG

MF: $C_{45}H_{50}N_6O_{16} \bullet XCF_3COOH$

FW: 930.9

Purity: ≥90%

Ex./Em. Max: 492/518 nm

UV/Vis.: λ_{max}: 230, 452 nm

Supplied as: A solid

Storage: -20°C

Stability: ≥4 years

5-FAM—Leu—Pro—Glu—Thr—Gly—Gly—OH

$\bullet XCF_3COOH$

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

Laboratory Procedures

5-FAM-LPETGG (trifluoroacetate salt) is supplied as a solid. A stock solution may be made by dissolving the 5-FAM-LPETGG (trifluoroacetate salt) in the solvent of choice, which should be purged with an inert gas. 5-FAM-LPETGG (trifluoroacetate salt) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of 5-FAM-LPETGG (trifluoroacetate salt) in these solvents is approximately 10 mg/ml.

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 5-FAM-LPETGG (trifluoroacetate salt) can be prepared by directly dissolving the solid in aqueous buffers. The solubility of 5-FAM-LPETGG (trifluoroacetate salt) in PBS (pH 7.2) is approximately 5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

5-FAM-LPETGG is a fluorescent peptide composed of the sortase recognition sequence LPETGG coupled to the fluorescent label 5-carboyxfluorescein (5-FAM; Item No. 19581), which displays excitation/emission maxima of 492/518 nm, respectively.[1] It has been used for site-specific labeling of target proteins *via* sortase-catalyzed transpeptidation.

Reference

1. Antos, J.M., Chew, G.-L., Guimaraes, C.P., *et al.* Site-specific N- and C-terminal labeling of a single polypeptide using sortases of different specificity. *J. Am. Chem. Soc.* **131(31),** 10800-10801 (2009).

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