

PRODUCT INFORMATION



Phospho-Glycogen Synthase Peptide 2 (trifluoroacetate salt)

Item No. 36749

Formal Name: L-tyrosyl-L-arginyl-L-arginyl-L-alanyl-L-alanyl-L-valyl-L-prolyl-L-prolyl-L-seryl-L-prolyl-L-seryl-L-leucyl-L-seryl-L-arginyl-L-histidyl-L-seryl-L-seryl-L-prolyl-L-histidyl-L-glutamyl-O-phosphono-L-seryl-L- α -glutamyl-L- α -aspartyl-L- α -glutamyl-L- α -glutamyl-L-glutamic acid, trifluoroacetate salt

Synonym: GS-2 Peptide

Peptide Sequence: YRRAAVPPSPSLSRHSSPHQXEDEEE-OH

(X = phosphoserine)

MF: $C_{123}H_{191}N_{40}O_{48}P \cdot XCF_3COOH$

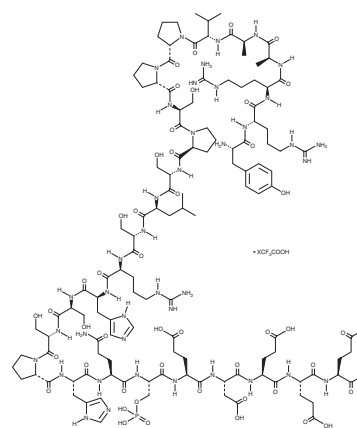
FW: 3,029.1

Purity: $\geq 95\%$

Supplied as: A solid

Storage: $-20^\circ C$

Stability: ≥ 4 years



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

Laboratory Procedures

Phospho-glycogen synthase peptide 2 (trifluoroacetate salt) is sparingly soluble (1-10 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

Phospho-glycogen synthase peptide 2 is a peptide substrate of glycogen synthase kinase 3 β (GSK3 β).¹ It has been used to assess the enzymatic activity of GSK3 β alone and when bound to frequently rearranged in advanced T cell lymphoma 2 (FRAT-2).

Reference

1. Stoothoff, W.H., Cho, J.-H., McDonald, R.P., *et al.* FRAT-2 preferentially increases glycogen synthase kinase 3 β -mediated phosphorylation of primed sites, which results in enhanced tau phosphorylation. *J. Biol. Chem.* **280**(1), 270-276 (2005).

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.

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