

Certificate of Analysiswww.tocris.com**Product Name:** L803
CAS Number: 348089-28-1**Catalog No.:** 2235**Batch No.:** 1**1. PHYSICAL AND CHEMICAL PROPERTIES**

Batch Molecular Formula: C₅₀H₈₀N₁₃O₁₉P
Batch Molecular Weight: 1198.23
Physical Appearance: White lyophilised solid
Net Peptide Content: 74%
Counter Ion: TFA
Solubility: Soluble to 1 mg/ml in water
Storage: Desiccate at -20°C
Peptide Sequence: Lys-Glu-Ala-Pro-Pro-Ala-Pro-Pro-Gln-pSer-Pro

2. ANALYTICAL DATA

HPLC: Shows >99% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

		Amino Acid Theoretical	Actual	Amino Acid Theoretical	Actual
Ala	2.00	2.00		Lys	1.00
Arg				Met	
Asx				Phe	
Cys				Pro	5.00
Glx	2.00	1.98		Ser	1.00
Gly				Thr	
His				Trp	
Ile				Tyr	
Leu				Val	

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Product Information

Product Name: L803**Catalog No.:** 2235**Batch No.:** 1

CAS Number: 348089-28-1

Description:

Novel phosphopeptide derived from GSK-3 recognition motif that acts as a substrate-competitive inhibitor of GSK-3 β (IC₅₀ = 150 μ M). Displays minimal inhibition of Cdc2, MAPK, PKA, CK2, PKC δ and PKB at 200 μ M. Myristoylated version available (L803-mts, Cat. No. 2256).

Physical and Chemical Properties:Batch Molecular Formula: C₅₀H₈₀N₁₃O₁₉P

Batch Molecular Weight: 1198.23

Physical Appearance: White lyophilised solid

Peptide Sequence:

Lys-Glu-Ala-Pro-Pro-Ala-Pro-Pro-Gln-
pSer-Pro

Storage: Desiccate at -20°C**Solubility & Usage Info:**

Soluble to 1 mg/ml in water

Net Peptide Content: 74% (Remaining weight made up of counterions and residual water).**Counter Ion:** TFA**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Peptides in solution are much less stable than in lyophilized form. This is especially true for peptides whose sequences contain amino acids such as Cys, Met, Trp, Asn, Gln, and N-terminal Glu.

Therefore we recommend storing peptides in solution for as short a time as possible. Avoid repeated freeze thaw cycles by dividing the peptide solution into aliquots and storing the aliquots at -20°C. Any portion of an aliquot unused after thawing should be discarded.

Peptides stored in solution can occasionally be susceptible to bacterial degradation. We recommend using sterile solutions or passing the peptide solution through a 0.2 μ m filter to remove potential bacterial contamination whenever possible.

References:

Plotkin *et al* (2003) Insulin mimetic action of synthetic phosphorylated peptide inhibitors of glycogen synthase kinase-3. J.Pharmacol.Exp.Ther. **305** 974. PMID: 12626660.

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-technne.cominfo@bio-technne.com
techsupport@bio-technne.com**North America**

Tel: (800) 343 7475

Chinainfo.cn@bio-technne.com
Tel: +86 (21) 52380373**Europe Middle East Africa**

Tel: +44 (0)1235 529449

Rest of Worldwww.tocris.com/distributors
Tel: +1 612 379 2956