**GSK3 substrate peptide**

YRRAVPPSPSLRHSPPHQ(pS)EDEEE

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Amount</th>
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<tr>
<td>PE-202</td>
<td>1 mg</td>
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**For in vitro use only!**

Shipping: shipped at ambient temperature

Storage Conditions: store at -20 °C

Additional Storage Conditions: avoid freeze/thaw cycles

Shelf Life: 12 months

**Molecular Formula:** YRRAVPPSPSLRHSPPHQ(pS)EDEEE

**Molecular Weight:** 3028 g/mol

**Purity:** 90 - 95 % (HPLC)

**Form:** lyophilized (reconstitution in 1.3 ml dd H₂O results in a 250 µM solution recommended for GSK3beta activity assays)

**Description:**

The synthetic peptide YRRAVPPSPSLRHSPPHQ(pS)EDEEE can be used as a substrate for GSK3alpha or beta in in vitro kinase assays. Glycogen synthase kinase 3 (GSK3) was initially described as a key enzyme involved in glycogen metabolism, but is now known to regulate a diverse array of cell functions. Insulin and growth factors inhibit GSK3 by triggering its phosphorylation, turning the N terminus into a pseudosubstrate inhibitor that competes for binding with the ‘priming phosphate’ of substrates.

**Selected References:**

