

Crosstide

Catalog No: tcsc7064



Available Sizes

Size: 1mg

Size: 5mg



Specifications

CAS No:

171783-05-4

Formula:

$C_{48}H_{77}N_{17}O_{17}$

Pathway:

PI3K/Akt/mTOR

Target:

Akt

Purity / Grade:

>98%

Solubility:

10 mM in H₂O

Observed Molecular Weight:

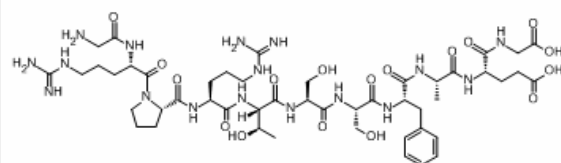
1164.23

Product Description

Crosstide is a peptide analog of glycogen synthase kinase α/β fusion protein sequence which is a substrate for **Akt**.

In Vitro: 16HBE14o– cells exposed to RV39 demonstrate a crosstide kinase activity in vitro. Serine phosphorylation of crosstide is confirmed by immunoblotting, and phosphorylation is blocked by PP2 but not by PP3^[1]. The wildtype GST-AKT2 shows significant phosphoryl transferase activity towards crosstide, reaching an initial velocity of 16 pmol phosphate/min/ μ g enzyme. The mutant GST-AKT2T/E,S/D displayed an initial velocity of 85 pmol phosphate/min/ μ g kinase for phosphorylation of Crosstide, corresponding to a 5-

fold increase compared to the wildtype enzyme^[2].



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