W45

Peptide-based, membrane-impermeant inhibitor of protein kinase G I α and I β

W45 is a potent peptide-based, membrane-impermeant inhibitor of cyclic GMP-dependent protein kinase Iα and Iβ. It displays selectivity for cyclic GMP-dependent protein kinase Iα compared to cyclic AMP-dependent protein kinase with a ratio of approximately 600 fold (Dostmann *et al*. 2000).
Fusion of W45 to membrane translocation sequences from HIV-1 Tat protein or *Drosophila Antennapedia* homeodomain results in the membrane-permeant fusion peptides DT-2 (Prod. No. BLG-D051) and DT-3 (Prod. No. BLG-D052), respectively. Since the highly charged W45 cannot cross cell membranes it can be used as a control in applications of DT-2, DT-3 and the proteolytically stable D-amino acid congener of DT-2, (D)-DT-2 (Prod. No. BLG-D110).

BLG-W001-025 (5 x 0.5 mg pack size) is not sold in the U.S. or Canada. Please contact us for available options.

Ordering Information

Order Online »

BLG-W001-005	0.5mg
BLG-W001-025	5x0.5mg

Manuals, SDS & CofA

View Online »

Handling & Storage

Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	PKG inhibitor peptide W45 . trifluoroacetate salt
Formula	$C_{48}H_{93}N_{19}O_8$ (free peptide)
MW	1064.4 (free peptide)
Purity	> 95% HPLC
Reconstitution	Addition of 470µl water or buffer to a 0.5mg vial yields a 1mM solution.
Sequence	L-R-K-K-K-K-K-H-amide (W45)
Solubility	Soluble in water.
Technical Info / Product Notes	For the Original Manufacturer's data sheet please click here.

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