

**Catalog No. 11216-034 0.5 mg**

**PEPTIDE NAME:** IKK-NBD Peptide

**CATALOG NO.:** 11216-034

**SIZE:** 0.5 mg

**SEQUENCE:** H-Asp-Arg-Gln-Ile-Lys-Ile-Trp-Phe-Gln-Asn-Arg-Arg-Met-Lys-Trp-Lys-Lys-**Thr-Ala-Leu-Asp-Trp-Ser-Trp-Leu-Gln-Thr-Glu-OH**

**SEQUENCE DESCRIPTION:** The peptide consists of two domains – an antennapedia homeodomain that confers cell permeability<sup>2</sup> and the T735 to E745 region of IKKbeta (**bold**) which is the NEMO binding domain (NBD)<sup>1</sup>.

**MOLECULAR WEIGHT:** 3694.0

**PURITY:** >95% by HPLC analysis.

**AMINO ACID ANALYSIS AND IDENTITY:** Confirms.

**PEPTIDE CONTENT:** 70%

**SUPPLIED AS:** Trifluoroacetate salt; 0.5 mg net peptide/vial.

**PHYSICAL APPEARANCE:** Lyophilized solid.

**SOLUBILITY:** DMSO to 20mM. Note: This peptide will precipitate when added to tissue culture medium, even to 100µM. However, enough will remain in solution to enter many cell types.

**STORAGE:** -20°C

**USAGE:** A selective inhibitor of NFκB activation.<sup>1</sup> Blocks interaction of NEMO (an IκB complex regulatory protein<sup>3</sup>) with the IκB kinase complex. The peptide (100 µM) inhibits E-selectin expression in human umbilical vein endothelial cells treated with TNFα and inhibits LPS-induced nitric acid release from a macrophage cell line.<sup>1</sup> In an experimental mouse model of acute inflammation, IKK-NBD peptide (topically applied) inhibited PMA induced ear inflammation.<sup>1</sup>

**LITERATURE REFERENCES:**

1. M.J.May *et al. Science* 2000 **289** 1550
2. E.Hildt *et al. J.Exp.Med.* 1999 **189** 1707
3. S.Yamaoka *et al. Cell* 1998 **93** 1231