

## Bid BH3 (80-99)

Cat. No.:	HY-P5325
CAS No.:	505070-05-3
Molecular Formula:	C <sub>95</sub> H <sub>161</sub> N <sub>33</sub> O <sub>32</sub> S
Molecular Weight:	2309.56
Sequence:	Glu-Asp-Ile-Ile-Arg-Asn-Ile-Ala-Arg-His-Leu-Ala-Gln-Val-Gly-Asp-Ser-Met-Asp-Arg
Sequence Shortening:	EDIIRNIARHLAQVGDSDMR
Target:	Bcl-2 Family
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

#### Description

Bid BH3 (80-99) is a biological active peptide. (BID is a pro-apoptotic member of the 'BH3-only' (BOPS) subset of the BCL-2 family of proteins that constitute a critical control point in apoptosis. Bid is the first of the BOPs reported to bind and activate Bcl-2, Bax, and Bak. Bid serves as a death-inducing ligand that moves from the cytosol to the mitochondrial membrane to inactivate Bcl-2 or to activate Bax. Pyroglutamyl (pGlu) peptides may spontaneously form when either Glutamine (Q) or Glutamic acid (E) is located at the sequence N-terminus. The conversion of Q or E to pGlu is a natural occurrence and in general it is believed that the hydrophobic  $\gamma$ -lactam ring of pGlu may play a role in peptide stability against gastrointestinal proteases. Pyroglutamyl peptides are therefore considered a normal subset of such peptides and are included as part of the peptide purity during HPLC analysis.)

**Caution: Product has not been fully validated for medical applications. For research use only.**

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