

Abz-HPGGPQ-EDDnp

Cat. No.:	HY-P5377
CAS No.:	221055-89-6
Molecular Formula:	C ₄₀ H ₅₀ N ₁₄ O ₁₂
Molecular Weight:	918.91
Sequence:	{Abz}-His-Pro-Gly-Gly-Pro-Gln-{EDDnp}
Sequence Shortening:	{Abz}-HPGGPQ-{EDDnp}
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description

Abz-HPGGPQ-EDDnp (Cathepsin K substrate) is a biological active peptide. (Cathepsins are a class of globular lysosomal proteases, playing a vital role in mammalian cellular turnover. They degrade polypeptides and are distinguished by their substrate specificities. Cathepsin K is the lysosomal cysteine protease involved in bone remodeling and resorption. It has potential as a drug target in autoimmune diseases and osteoporosis. This FRET peptide can be used to monitor selectively cathepsin K activity in physiological fluids and cell lysates. Abz-HPGGPQ-EDDnp [where Abz represents o-aminobenzoic acid and EDDnp represents N-(2, 4-dinitrophenyl)-ethylenediamine], a substrate initially developed for trypanosomal enzymes, is efficiently cleaved at the Gly-Gly bond by cathepsin K. This peptide is resistant to hydrolysis by cathepsins B, F, H, L, S and V, Ex/Em=340 nm/420 nm.)

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

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