

## Abz-GIVRAK(Dnp)

|                      |   |
|----------------------|---|
| Cat. No.:            | HY-P4404  |
| CAS No.:             | 827044-38-2   |
| Molecular Formula:   | C <sub>41</sub> H <sub>61</sub> N <sub>13</sub> O <sub>12</sub>                           |
| Molecular Weight:    | 928   |
| Sequence:            | {Abz}-Gly-Ile-Val-Arg-Ala-{Lys(Dnp)}  |
| Sequence Shortening: | {Abz}-GIVRA-{Lys(Dnp)}  |
| Target:              | Others  |
| Pathway:             | Others  |
| Storage:             | Please store the product under the recommended conditions in the Certificate of Analysis. |

### BIOLOGICAL ACTIVITY

#### Description

Abz-GIVRAK(Dnp) is the most efficient substrate for cathepsin B and is highly selective for this enzyme among lysosomal cysteine proteases. After Abz-GIVRAK(Dnp) is hydrolyzed, aminoacylbenzimosulfosuccinic acid (Abz-SAS) is released, and dinitrobenzoyl (Dnp) is also released. The product of this hydrolysis reaction, Abz-SAS, is fluorescent under ultraviolet light and can emit a fluorescent signal<sup>[1]</sup>.

### REFERENCES

[1]. Cotrin SS, et, al. Positional-scanning combinatorial libraries of fluorescence resonance energy transfer peptides to define substrate specificity of carboxypeptidases: assays with human cathepsin B. *Anal Biochem.* 2004 Dec 15;335(2):244-52.

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

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