

Product Data Sheet

Product Name: Abz-Arg-Val-Lys-Arg-Gly-Leu-Ala-m-nitro-Tyr-Asp-OH

Cat. No.: GA20454

Chemical Properties

Cas. No. 174838-79-0

Formula $C_{54}H_{84}N_{18}O_{16}$

M.Wt 1241.37

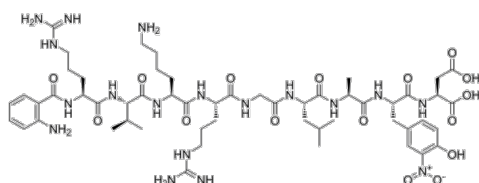
Solubility Soluble in DMSO

Storage Store at -20°C, protect from light

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

Internally quenched fluorogenic peptide substrate containing anthranilic acid as fluorescent donor and m-nitro-tyrosine as acceptor (quencher). The sequence Abz-RVKRGLAY(NO₂)D is based on the sequence of hemagglutinin. The FRET substrate is efficiently cleaved by furin, a subtilisin-like eukaryotic serine endoprotease with $K_m = 3.8 \mu M$ and $k_{cat} = 29.3 s^{-1}$ ($k_{cat}/K_m = 7'710'000 M^{-1}s^{-1}$). Its k_{cat}/K_m value is over 2000-fold higher than that of the commonly used substrate Boc-Arg-Val-Arg-Arg-AMC. FRET Substrate for the basic residue-specific yeast aspartyl protease yapsin 1.

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

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