Boc-Leu-Arg-Arg-AMC (Boc-LRR-AMC)
Cat. # S-300
Fluorogenic tri-peptide substrate for measuring the "trypsin-like" peptidase activity of the 20S proteasome. Each of the two 20S internal β-type rings harbors three different proteolytically active sites: β1 ("post-glutamyl peptide hydrolase" site), β2 ("trypsin-like" site) and β5 ("chymotrypsin-like" site). This peptide is also substrate for the Kex2 endopeptidase from S. Cervisiae, which has substrate specificity toward the C-terminal side of LR, PR and RR sequences. In addition, the peptide can be cleaved by Kalikrein 5 with a P1 site preference for basic residues (R and K).

| Quantity: | 5 mg |
| Formula: | C_{33}H_{52}N_{10}O_{7} \cdot HCl |
| Formula Weight: | 773.76 |

Physical/Chemical Characteristics

Solubility: Soluble in methanol up to 50 mg/ml. For best results, pellet dry compound prior to reconstitution. Solubilize at desired stock concentration.

Purity: > 99% as adjudged by thin layer chromatography.

Use & Storage

Use: Add from stock directly to in vitro or in vivo assay at desired concentration. Typical concentrations range from 10-100 µM. (λ_{ex}: 380nm; λ_{em}: 460 nm)

Storage: Store lyophilized powder at -20°C for at least one year. Stock solution at -20°C for up to 1 month. Avoid multiple freeze/thaw cycles.

Literature

References:

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