

[D-Arg25]-Neuropeptide Y, human, rat

PRODUCT DESCRIPTION

[D-Arg25]-Neuropeptide Y, human, rat is a 38-amino-acid A peptide from the neuropeptide Y (NPY) family, one of the most abundant neuropeptides in the brain. NPY signals through Y1-Y5 receptors to regulate appetite, energy balance, anxiety, circadian rhythms, and cardiovascular function. Used in neuroscience, metabolic, and cardiovascular research for studying feeding behavior, stress responses, and sympathetic nervous system regulation.

PRODUCT SPECIFICATIONS

|                   |                                      |
|-------------------|--------------------------------------|
| Catalog Number    | BPT1790                              |
| Molecular Weight  | 4271.6731 Da                         |
| Molecular Formula | C189H285N55O57S1                     |
| Purity            | Peak Area by HPLC >=95%              |
| Form              | Lyophilized                          |
| Source            | Synthetic (Chemical Synthesis, SPPS) |
| Endotoxin         | N/A (Synthetic peptide)              |

AMINO ACID SEQUENCE

One-Letter Code:

YPSKPDNPGEDAPAEDMARYYSALrHYINLITRQRY-NH2

Three-Letter Code:

H-Tyr-Pro-Ser-Lys-Pro-Asp-Asn-Pro-Gly-Glu-Asp-Ala-Pro-Ala-Glu-Asp-Met-Ala-Arg-Tyr-Tyr-Ser-Ala-Leu-{D-Arg}-His-Tyr-Ile-Asn-Leu-Ile-Thr-Arg-Gln-Arg-Tyr-NH2

RESEARCH APPLICATIONS

|                  |                                    |
|------------------|------------------------------------|
| Application      | Receptor binding                   |
| Biomarker Target | NPY Receptors (Y1-Y5)              |
| Research Area    | Neuroscience                       |
| Sub-category     | Neuropeptide Y & Energy Metabolism |

STORAGE & HANDLING

|                      |                                                       |
|----------------------|-------------------------------------------------------|
| Storage Temperature  | -20 deg C                                             |
| Form                 | Lyophilized                                           |
| Stability            | Lyophilized product stable for 24 months at -20 deg C |
| Reconstitution       | Reconstitute in sterile water or appropriate buffer   |
| After Reconstitution | Aliquot and store at -20 to -80 deg C                 |
| Avoid                | Repeated freeze-thaw cycles                           |

AVAILABLE SIZES

|              |              |
|--------------|--------------|
| Size Options | 1 mg, 10 mg  |
| Usage        | Research use |

QUALITY CONTROL

|               |                                                      |
|---------------|------------------------------------------------------|
| Purity Method | HPLC, Mass Spectrometry (MS)                         |
| Identity      | Confirmed by ESI-MS or MALDI-TOF                     |
| Purity        | Peak Area by HPLC >=95%                              |
| Documentation | Certificate of Analysis (CoA) available upon request |