



PepHTS™ Peptide Library Service

Increasingly, peptides are attracting attention for their potential as therapeutic agents due to their advantages such as high potency, low side-effects, target specificity, and low toxicity. The market for peptide drugs will be **\$13.4 billion** in 2010, a **15%** annual growth rate over 2009.

To meet the growing demand for high throughput peptide library screening, GenScript has recently launched the **PepHTS™ Peptide Library Service**. PepHTS™ is a proprietary peptide synthesis platform utilizing *fmoc* chemistry to facilitate enhanced high throughput peptide screening platforms. Large numbers of peptides can be synthesized, and lyophilized in parallel and delivered in a customizable format for an affordable price. All peptide QC is monitored by a stringent Total Quality Management System (see Figure 1).

Standard peptide synthesis specifications (e.g. **10mg** scale at **90%** purity) are typically too costly and resource intensive for building a screening library. With GenScript's automated processes and industrialized scale and setup, the cost for producing a **PepHTS™** peptide library is significantly lower than comparable conventional methods and starts at **\$120/peptide** (20 AA). PepHTS™ is the cost-effective and quality-certified library that you've been searching for.

► PepHTS™ Specifications

- Convenient and user-friendly [Online peptide library design tools](#)
- **Large scale:** up to **20** grams for each peptide
- **High purity:** typically **>90%** or above (other options available)
- **No cross-contamination:** lyophilized peptides provided in individually clearly-labeled vials
- **Comprehensive modifications to enhance peptide diversity and pharmacology:** e.g. glycosylation, cyclization, non-natural amino acids, isotope labeling, PEGylation, and more.
- **Stringent QC by HPLC and MS for each peptide**

► PepHTS™ Advantages

- High-throughput peptide synthesis and available assay screening
- High success rate comparable with chemical compound libraries
- All peptides produced in modern, state-of-the-art facilities
- Peptide library design consultation services with our experienced chemists
- Comprehensive QA and QC documentation
- Secured data management system
- Dependable quality and fast turnaround
- Customized deliverables and packaging
- Competitive and transparent pricing

► Quality Assurance

GenScript is committed to Total Quality Management (TQM) to assure customers' complete satisfaction. MS and HPLC analyses are performed after the completion of peptide synthesis, purification and QC (quality control). QA (quality assurance) procedures are also followed independently to double guarantee the high quality of every delivered peptide.

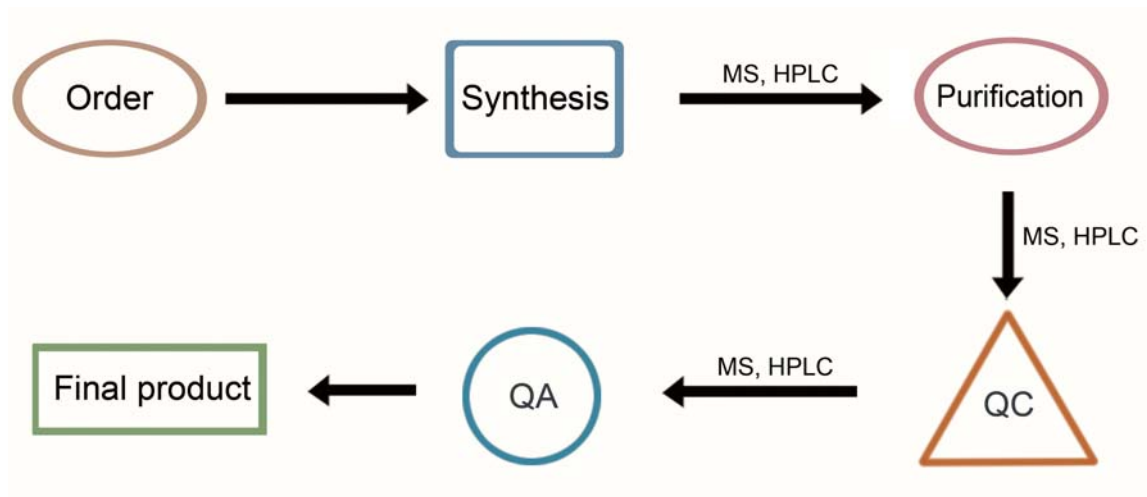
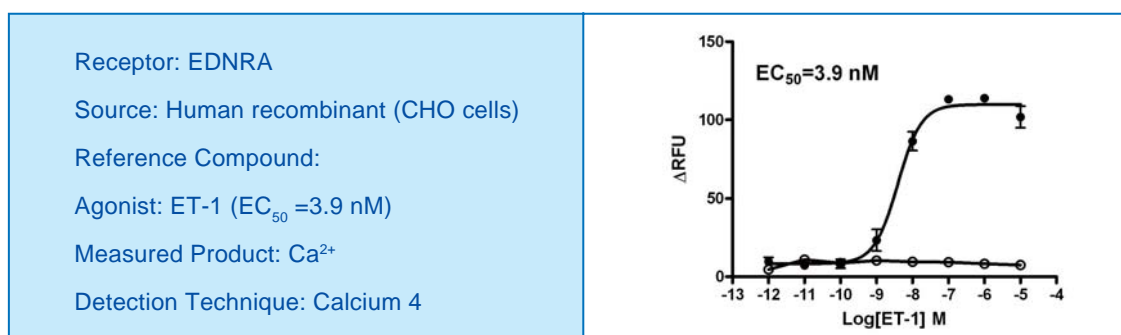


Figure 1. GenScript's Total Quality Management (TQM) System for Peptide Services

► Case Study

GenScript's **PepHTS™** peptide library is a powerful tool for peptide drug screening. GenScript has developed **74** functional cell-based assays for peptide G-protein coupled receptors (GPCRs). All assays are optimized on a FlexStation 3 and/or FLIPR-Tetra platforms and ready for high throughput screening (HTS). Integrating with the PepHTS™ technology, GenScript can offer unique solutions for your peptide drug discovery.



Quotations and Ordering

Quotations can be submitted by online system, email, phone or fax. Orders can be placed by email, phone, or fax with either a formal PO (Purchase Order) or credit card.

Peptide Library Online Quotation: https://www.genscript.com/ssl-bin/peptide_library.cgi