

Product Specification Sheet

HER 2 peptide

Cat #HER2-654-P

HER2 peptide, (654 – 662), vaccine candidate; antigen grade

Size: 5 mg

HER2 (Neu /ErbB-2/CD340/ p185) is a member of the epidermal growth factor receptor (EGFR/ErbB) family of receptor tyrosine kinases. It is an onco protein that is over expressed in 20-30% of breast cancers. It has an extra cellular domain (1-652 a.a), a transmembrane domain (653-675 a.a) and an intra cellular domain (676 – 1255 a.a). In patients with HER2-overexpressing tumors, different studies have shown cellular and/or humoral immune responses against HER2 in early stages of the disease Immunological tolerance against HER2 antigen represents a barrier to effective vaccination.

Peptide vaccines contain antigenic epitopes derived from Her2 domains for the induction of peptide-specific immune regulators (antibodies, helper T-cells and cytotoxic T lymphocytes). Numerous clinical trials have been conducted using various peptide preparations, with or without adjuvants.

HER2-654-P peptide (654-662) is a 9 a.a HLA-A2-restricted peptide derived from the transmembrane domain of HER2 (aa 654–662) In vitro studies have shown that it is as effective as E75 at inducing a CTL response, suggesting that it might be more immunogenic than E75. A phase I clinical study using GP2 in combination with GM-CSF is ongoing.

Cat# HER2-654-P

Sequence	IISAVVGIL
Avg. mass	994.8
Purity	>93%
Form and storage	Powder. Store at -20°C up to 1 year.
Shipping	Shipped at 4° C
Solubility	Not tested

General references:

GE Peoples “Clinical trial results of a HER2/neu (E75) vaccine to prevent recurrence in high-risk breast cancer patients”
Journal of clinical oncology, 2005.171.66.121.246

Related Items

HER2-597-P, HER2-369-P, HER2-776-P, HER2-563-P, HER2-585-P, HER2-613-P, HER2-828-P, HER225-R-10, HER26-R-10,

HER2-369-P.....053012P

India Contact:

Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444
Email: customerservice@lifetechindia.com Website: www.lifetechindia.com