

Product Datasheet

Pertuzumab (orb1290231)

Catalog Number	orb1290231
Category	Antibodies
Description	Pertuzumab biosimilar antibody
Target	ERBB2/EGFR2/CD340
Clonality	Monoclonal
Species/Host	Mouse
Isotype	IgG1-kappa
Conjugation	Unconjugated
Reactivity	Human
Buffer/Preservatives	PBS buffer pH 7.5
Purity	> 95%
Tested applications	ELISA, FC
Antibody Type	Biosimilar Antibody
Source	CHO cells

Biorbyt Ltd.

7 Signet Court, Swann Road
Cambridge
CB5 8LA
United Kingdom

Email: info@biorbyt.com, support@biorbyt.com
Phone: [+44 \(0\)1223 859353](tel:+44(0)1223859353) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)

Biorbyt LLC

68 TW Alexander Drive
Research Triangle Park
Durham
NC 27713
United States

Email: info@biorbyt.com, support@biorbyt.com
Phone: [+1 \(415\) 906-5211](tel:+1(415)906-5211) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)

Biological Activity

Pertuzumab (anti-HER2) significantly inhibits the HRG- α -stimulated cellular growth of the 11_18 cells. Pertuzumab blocks HRG- α -stimulated phosphorylation of HER3, mitogen-activated protein kinase (MAPK), and Akt. In contrast, pertuzumab fails to block epidermal growth factor (EGF)-stimulated phosphorylation of EGF receptor (EGFR) and MAPK. Immunoprecipitation shows that pertuzumab inhibited HRG- α -stimulated HER2/HER3 heterodimer formation. HRG- α -stimulated HER3 phosphorylation is also observed in the PC-9 cells co-overexpressing EGFR, HER2, and HER3, but the cell growth is neither stimulated by HRG- α nor inhibited by pertuzumab. Pertuzumab binds to ErbB2 near the center of domain II, sterically blocking a binding pocket necessary for receptor dimerization and signaling. Pertuzumab is specific for human ErbB2 and does not bind to rodent ErbB2 (neu) with detectable affinity.

CAS Number

380610-27-5

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Note

For research use only

Biorbyt Ltd.

7 Signet Court, Swann Road
Cambridge
CB5 8LA
United Kingdom

Email: info@biorbyt.com, support@biorbyt.comPhone: [+44 \(0\)1223 859353](tel:+44(0)1223859353) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)**Biorbyt LLC**

68 TW Alexander Drive
Research Triangle Park
Durham
NC 27713
United States

Email: info@biorbyt.com, support@biorbyt.comPhone: [+1 \(415\) 906-5211](tel:+1(415)906-5211) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)