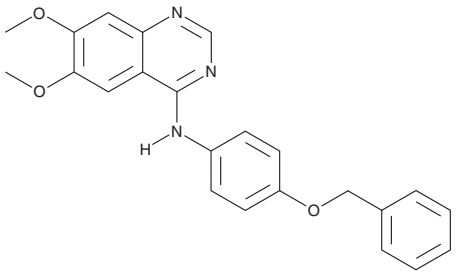
PRODUCT INFORMATION

EGFR/ErbB2 Inhibitor

Item No. 17568

CAS Registry No.:	179248-61-4
Formal Name:	6,7-dimethoxy-N-[4-(phenylmethoxy) phenyl]-4-quinazolinamine
MF:	$C_{23}H_{21}N_3O_3$
FW:	387.4
Purity:	≥95%
UV/Vis.:	λ_{max}: 218, 246, 332 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

EGFR/ErbB2 inhibitor is supplied as a crystalline solid. A stock solution may be made by dissolving the EGFR/ErbB2 inhibitor in the solvent of choice, which should be purged with an inert gas. EGFR/ErbB2 inhibitor is soluble in organic solvents such as DMSO and dimethyl formamide (DMF). The solubility of EGFR/ErbB2 inhibitor in these solvents is approximately 1 and 10 mg/ml, respectively.

EGFR/ErbB2 inhibitor is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, EGFR/ErbB2 inhibitor should first be dissolved in DMF and then diluted with the aqueous buffer of choice. EGFR/ErbB2 inhibitor has a solubility of approximately 0.1 mg/ml in a 1:4 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

EGFR/ErbB2 inhibitor is a cell-permeable inhibitor of EGFR and c-ErbB2 (HER2, Neu; IC_{50}s = 20 and 79 nM, respectively).[1] It inhibits the proliferation of cancer cells overexpressing either c-ErbB2 or EGFR (IC_{50}s = 2.3-2.5 µM).[1] EGFR/ErbB2 inhibitor displays a high level of selectivity for these kinases.[2]

References

1. Cockerill, S., Stubberfield, C., Stables, J., *et al.* Indazolylamino quinazolines and pyridopyrimidines as inhibitors of the EGFr and C-erbB-2. *Bioorg. Med. Chem. Lett.* **11(11)**, 1401-1405 (2001).
2. Anastassiadis, T., Deacon, S.W., Devarajan, K., *et al.* Comprehensive assay of kinase catalytic activity reveals features of kinase inhibitor selectivity. *Nat. Biotechnol.* **29(11)**, 1039-1045 (2011).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM